

## Jamie Starke

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### CONTACT

#### INFORMATION

*E-mail:* cv@jamiestarke.com  
*Website:* www.jamiestarke.com  
*Current City:* Victoria, BC, Canada

### CITIZENSHIP

Canadian

### INTERESTS

Cloud and Infrastructure Engineering, DevOps and Automation, Developer Tools Development, Web-based Systems.

### TECHNICAL SKILLS

**Programming:** Terraform, Amazon Web Services, Google Cloud Platform, AWS CloudFormation, Python, TypeScript, JavaScript, UNIX shell scripting, Git, and others

**Operating Systems:** Mac OS X, Linux, Microsoft Windows, and other UNIX variants

### EXPERIENCE

#### **Anglepoint**, Victoria, BC Canada (Remote)

*Senior DevOps Engineer*

**March 2024 to Present**

- Architected and executed a strategic infrastructure migration from AWS EKS to ECS Fargate for a core Elixir service, eliminating cluster maintenance overhead and reducing monthly compute expenditure by 90%.
- Accelerated time-to-production from several days to under one hour by engineering a configuration-driven deployment framework using AWS CDK and GitHub Actions.
- Established a 100% self-service model for developers, enabling the automated provisioning of databases, queues, and least-privileged IAM roles through a single configuration file.
- Reduced infrastructure waste and optimized cloud spend by architecting an end-to-end FinOps pipeline that integrated AWS billing data with granular utilization metrics in Power BI.
- Identified cost-saving opportunities by correlating granular metrics, such as RDS Aurora ACU versus CPU utilization, across multiple AWS Payer organizations.
- Unified the internal tool ecosystem by architecting a streamlined application delivery platform that presented a modular monolith and multiple frontends under a single domain.
- Ensured high availability and seamless routing for critical business tools by engineering the underlying AWS infrastructure to support a modular architecture.
- Standardized organizational incident management by authoring comprehensive Root Cause Analysis (RCA) runbooks based on [GitLab RCA methodologies](#), and facilitated simulated response drills to train cross-functional engineering teams in structured troubleshooting.

#### **Cloud Versed Consulting**, Victoria, BC Canada

*President/Cloud Consultant*

**July 2023 to Present**

- Spearheaded the delivery of a secure, self-service infrastructure platform as President and Lead Consultant, utilizing AWS CloudFormation and Microsoft Entra SSO integration.
- Democratized infrastructure management by empowering non-engineering staff to independently provision and manage complex full-stack environments—including compute and high-performance storage—while maintaining strict cost controls.

- Enhanced platform safety for a social media client by implementing CSAM detection based on the Safer by Thorn framework.

**Workday**, Victoria, BC Canada

*Senior Cloud Engineer*

**October 2021 to July 2023**

- Reduced weekly administrative overhead by 60%, saving approximately one business day per week, by co-designing and implementing an automated request and provisioning workflow for Google Cloud Platform projects.
- Led an enterprise-wide cloud governance initiative that increased resource tagging coverage by over 1,000% (from 30k to 325k resources) in a single month, achieving double the target coverage and enabling precise cost attribution.
- Architected a unified cloud cost-intelligence tool that aggregated data from over 20 disparate sources across AWS, GCP, and private data centers into a single data warehouse for comprehensive cross-cloud financial analysis.

*Senior Software Dev. Engineer, DevOps*

**October 2020 to October 2021**

*Software Development Engineer, DevOps*

**October 2019 to October 2020**

*Sr Assoc. Software Dev. Engineer, DevOps*

**January 2018 to October 2019**

- Standardized application delivery for services on Amazon ECS by developing reusable Terraform modules and CI/CD pipelines to ensure consistent, zero-downtime deployments.
- Orchestrated the migration of legacy applications from on-premise data centers to AWS, including complex database transitions and the implementation of resilient hybrid-cloud connectivity.
- Eliminated manual intervention in cross-account networking by architecting an automated VPC peering and routing solution using AWS Lambda.
- Led active on-call rotations for critical infrastructure, utilizing a structured approach to troubleshoot production systems under pressure and driving cross-functional RCA investigations.

**Giftbit**, Victoria, BC Canada

*DevOps Engineer*

**June 2016 to January 2018**

- Established a standardized Infrastructure as Code (IaC) framework using AWS CloudFormation and CodePipeline, enabling consistent and repeatable resource provisioning across development, staging, and production environments.
- Reduced deployment times from hours to minutes by developing custom deployment scripts that provided a standardized, high-velocity workflow for developer service changes.
- Achieved a 40% reduction in total cloud expenditure through a comprehensive cost-optimization initiative, including decommissioning orphaned resources and right-sizing over-provisioned instances.
- Optimized long-term cloud costs by implementing a Reserved Instance (RI) strategy for stable workloads.

**SilkStart Technology**, Victoria, BC Canada

*Lead Full-Stack Developer*

**May 2014 to May 2016**

- Enabled significant revenue growth by leading a major architectural transition to support multi-chapter associations, directly increasing the platform's capacity to serve much larger organizations.
- Automated infrastructure lifecycle by building a consistent server model using Chef, reducing server replacement time to minutes and providing provider-agnostic flexibility.

- Orchestrated a rapid cloud migration from Linode to AWS in under two weeks, utilizing automation to ensure a repeatable environment setup.
- Streamlined developer workflows by developing a CI/CD pipeline using Jenkins, Docker, Packer, and Chef for automated testing and staging deployments.
- Improved code quality by mentoring the team on componentization techniques to create features that were more easily extensible and testable.

**Seeker Solutions**, Victoria, BC Canada

*Software Developer*

**January 2014 to April 2014**

- Integrated rapidly into a Scrum team to develop and deploy new features for a Java and GWT-based web application surveying surgical patients.
- Spearheaded a technical stack evaluation by identifying limitations in the existing architecture and providing strategic insights for a complete stack transition.
- Accelerated development velocity by investigating and implementing new toolsets designed to optimize feature deployment.
- Mentored developers on SMS and telephony integration through the implementation of Twilio for enhanced application functionality.
- Championed a mobile-first development strategy, prioritizing mobile usability and performance across the application.

**Latitude Geographics**, Victoria, BC Canada

*Software Developer*

**September 2012 to January 2014**

- Architected a native mobile application framework using PhoneGap and Xamarin to bridge HTML5 web applications with native device functionality.
- Developed and integrated features across multiple enterprise applications utilizing C#, JavaScript, and TypeScript.
- Elevated code base maturity by establishing a culture of architectural discussions and formal code reviews.

**University of Victoria**, Victoria, BC Canada

*Research Assistant*

**July 2010 to July 2012**

- Supervisor: [Margaret-Anne Storey](#)
- Developed an iterative Active Learning pipeline to classify developer expertise by manually labeling seed datasets to train Support Vector Machine (SVM) models.
- Analyzed the Stack Overflow dataset to distinguish "novice" users from experts based on the technical discourse and linguistic patterns found within their questions.
- Investigated the professional utility of micro-blogging in software engineering, identifying how practitioners leverage social tools for real-time information sharing.

**Student Geeks Inc.**, Calgary, AB Canada

*Co-owner and Onsite Technician*

**October 2005 to June 2010**

- Managed company operations, budgets and expenses through detailed spreadsheets of company activities.
- Instructed clients in using new systems and software.
- Analyzed and diagnosed client technology issues and implemented solutions to provide positive client experience.
- Ensured client needs and expectations were met in a polite and efficient manner.
- Displayed self-management, discipline, initiative and success through company initialization and operation for over four years.

**The University of Calgary**, Calgary, AB Canada

*Research Assistant*

**May 2007 to June 2010**

- Supervisor: Jonathan Sillito
- Researched and prototyped novel search techniques for software modification to improve developer efficiency and navigation.
- Developed a plug-in for the Eclipse Integrated Development Environment utilizing the Standard Widget Toolkit (SWT) and Java Development Toolkit (JDT) frameworks.
- Developed a web-based tool called Scrutinize utilizing a Django web server and Python backend with a Flex/ActionScript user interface to visualize project changes and contributor impact.
- Collaborated with a small team using the Eclipse Integrated Development Environment and Subversion for team integration and version control.

*Teaching Assistant*

**September 2008 to April 2010**

- Instructors: Jonathan Sillito, [Ben Stephenson](#)
- Facilitated labs and mentored students in Analysis and Design of Large-Scale Software (SENG 301), focusing on architectural patterns, modularity, and the complexities of scaling software systems.
- Provided instruction and mentorship for Introduction to Computer Science for Multidisciplinary Studies (CPSC 217), translating fundamental programming concepts for students across various academic disciplines.
- Evaluated technical assignments and examinations, providing constructive feedback on code quality, logic, and adherence to software engineering principles.

*Undergraduate Researcher*

**June 2007 to August 2007**

- Developed the "Code Set Tool," an Eclipse plug-in designed to help programmers aggregate and manipulate sets of code elements to answer high-level questions about source code.
- Engineered a custom interface within the Eclipse environment that allowed users to perform set operations on code entities to improve navigation and comprehension.
- Conducted a qualitative user study to evaluate the tool's effectiveness, performing detailed analysis of screen recordings and audio data to identify usability patterns.
- Authored a study report summarizing the usefulness of the tool based on developer feedback and behavioral observations under the supervision of Dr. Jonathan Sillito.

## EDUCATION

### University of Victoria, Victoria, BC Canada

Ph.D., Computer Science, July 2012 (Incomplete)

- Advisor: Professor Margaret-Anne Storey
- Relevant Courses: Computer Supported Collaborative Work, Data Mining
- Cumulative GPA: 9.0 of 9.0

### University of Calgary, Calgary, AB Canada

M.Sc., Computer Science, November 2010

- Thesis Topic: Finding What is Important: Understanding and Improving Source Code Search
- Advisor: Assistant Professor Jonathan Sillito
- Relevant Courses: Qualitative Research Methods in Software Engineering, Research Methods in Human-Computer Interaction, Information Visualization, Interactive Tabletops and Surfaces
- Cumulative GPA: 4.0 of 4.0

B.Sc., Computer Science, November 2008

- *With Distinction*
- Relevant Courses: Software Development in Teams and Organizations, Human-Computer Interaction, Web-Based Systems, Data Base Management Systems
- Cumulative GPA: 3.6 of 4.0

## CONFERENCE PUBLICATIONS (AVAILABLE ON WEBSITE)

Gargi Bougie, Jamie Starke, Margaret-Anne Storey and Daniel German. 2011. *Towards Understanding Twitter Use in Software Engineering: Preliminary Findings Ongoing Challenges and Future Questions*. In Proceedings of the 2nd International Workshop on Web 2.0 for Software Engineering.

Jamie Starke. 2010. *Finding What is Important: Understanding and Improving Source Code Search*. Master of Science thesis, Department of Computer Science, University of Calgary, July 2010.

Jamie Starke, Chris Luce and Jonathan Sillito. 2009. *Searching and Skimming: An Exploratory Study*. In Proceedings of the IEEE International Conference on Software Maintenance. pp. 157-166.

Jamie Starke, Chris Luce and Jonathan Sillito. 2009. *Working with Search Results*. In Proceedings of the 1st International Workshop on Search-driven development: Users, Infrastructure, Tools and Evaluation. pp. 53-56.

Chris Luce, Jamie Starke, Tom Zimmermann and Jonathan Sillito. 2008. *Scrutinize: Exploring a Project's Revision History*. Appeared as a video at the ACM conference on Computer Supported Cooperative Work.

Fraser, C., Luce, C., Starke, J., Sillito, J. 2008. *Tool support for working with sets of source code entities*. In Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing. pp. 73-77.

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| PRESENTATIONS     | <p>Jamie Starke. <i>Searching and Skimming: An Exploratory Study</i>. Presented at the IEEE International Conference on Software Maintenance. 2009.</p> <p>Jamie Starke. <i>Working with Search Results</i>. Presented at the 1st International Workshop on Search-driven development: Users, Infrastructure, Tools and Evaluation. 2009.</p> <p>Starke, J. <i>Tool support for working with sets of source code entities</i>. Presented at the IEEE Symposium on Visual Languages and Human-Centric Computing. 2008.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AWARDS            | <p>Academic</p> <ul style="list-style-type: none"> <li>• <a href="#">Alexander Graham Bell Canada Graduate Scholarship - Doctorate</a>, 2010</li> <li>• Department Research Award, Department of Computer Science, 2009</li> <li>• <a href="#">NSERC Postgraduate Scholarship - Masters</a>, 2008</li> <li>• Department Research Award, Department of Computer Science, 2008</li> <li>• Dean's Research Excellence Award, Faculty of Graduate Studies, 2008</li> <li>• Dean's List, Faculty of Science, 2008</li> <li>• Archie and Hugh Bothner Bursary, 2007</li> <li>• Student Peer Assistance Undergraduate Bursary, 2007</li> <li>• Jason Lang Scholarship, 2007</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| VOLUNTEER<br>WORK | <p>Organizer, <a href="#">DevOpsDays Victoria</a>, 2018</p> <ul style="list-style-type: none"> <li>• Building sponsoring prospectus to give to potential sponsors, describing our sponsorship tiers, and the benefits of each.</li> <li>• Modifying site to consistently display sponsors based on their sponsorship level.</li> <li>• Setting up and managing a social media presence for the conference.</li> </ul> <p>Marketing and Member Engagement, <a href="#">Whisky Oriented Development</a>, 2014–2018</p> <ul style="list-style-type: none"> <li>• Strategizing and implementing member engagement efforts, through direct contact and social media marketing.</li> <li>• Created the Whisky Oriented Development website, to enable easy dissemination of our events, and member information.</li> <li>• Helped with the organization and running of our tasting and networking events.</li> </ul> <p>Student Life Liaison, Computer Science Graduate Students' Association, 2011–2012</p> <ul style="list-style-type: none"> <li>• Began initial work to create the Graduate Students' Association.</li> <li>• Created the CSGSA website, to allow graduate students to facilitate communication, and gather useful graduate student resources.</li> <li>• Started a weekly tea to foster graduate student socialization and cross-lab discussion.</li> </ul> <p>Vice President of Internal Relations, Computer Science Graduate Society, 2009–2010</p> <ul style="list-style-type: none"> <li>• Organizing and/or providing representation for graduate students on a number of Department committees, including: <ul style="list-style-type: none"> <li>• Department meetings</li> <li>• Undergraduate Affairs Committee</li> <li>• Hiring Committee</li> </ul> </li> </ul> <p>Student Volunteer Coordinator, Interactive Tabletops and Surfaces, 2009</p> <ul style="list-style-type: none"> <li>• Organizing of student volunteers for the conference.</li> <li>• Coordinating the smooth operations of the associated events at the conference.</li> </ul> <p>Student Volunteer, International Conference on Software Engineering, 2009</p> <ul style="list-style-type: none"> <li>• Helping with operations of the conference, including registration.</li> </ul> |

Laboratory Representative, Laboratory Representative Committee, Computer Science Graduate Society, 2008–2009

- Representing the students of my Laboratory to the Computer Science Graduate Society
- Providing feedback on CSGS initiatives and events

Vice President of Events, Computer Science Undergraduate Society, 2007–2008

- Planning and organizing of events
- Communicating with external organizations for joint events
- Advertising events to the students through both posters and online means
- Planning several large parties throughout the year to bring Computer Science Students together, and give them to mingle in a more casual environment