




# Alec Cumming

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## EDUCATION

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**University of British Columbia**

September 2017 - May 2023

*Bachelor of Science in Computer Science*

## SKILLS

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**Languages:** Java, SQL, Python, JavaScript/TypeScript, HTML/CSS, C++, L<sup>A</sup>T<sub>E</sub>X

**Tools:** Git, VS Code, IntelliJ IDEA, Sourcetree, Jenkins, GitHub Actions, AWS, Docker, Maven, Gradle

**Frameworks:** JUnit, Spring, React.js, Node.js, Express.js, Flutter

## EXPERIENCE

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**Bit Quill Technologies** | *Software Developer 1 - Internship*

May 2022 – January 2023

- Contributed to the release and maintenance of the JDBC driver for Amazon Aurora, actively participating in code reviews, bug fixes, and performance optimizations
- Implemented a critical feature by creating a plugin that allows users to securely connect to Amazon Aurora clusters using AWS Identity and Access Management (IAM)
- Authored a detailed user configuration guide for the newly developed IAM Authentication plugin, ensuring users can easily configure and utilize this security feature
- Technologies include Java, C++, Amazon Aurora, Github Actions

**Absolute Software** | *Associate QA Automation Developer - Internship*

January 2021 – September 2021

- Developed Python automation tools to streamline data collection from performance tests and automate data posting to Confluence, improving data accuracy, time savings, and team collaboration
- Coordinated the migration of the legacy testing suite, taking on the primary responsibility for incorporating component testing methodologies, resulting in more robust software quality assurance
- Collaborated closely with Development and Program Management teams to identify and address issues, ensuring the smooth execution of automation processes
- Technologies include Java, Python, Jenkins, and Docker

**Bizkinnect** | *Full Stack Engineer - Internship*

September 2020 - January 2021

- Developed and maintained both the front-end and back-end components of a web-based application using JavaScript, Node.js, Express.js, and React, ensuring seamless user experiences
- Collaborated with cross-functional teams to implement software modifications based on customer feedback, enhancing product usability and satisfaction
- Designed and implemented RESTful APIs to facilitate data communication between the front-end and back-end systems, improving data flow and system performance
- Technologies include JavaScript, React.js, Node.js, AWS Lambda, MySQL

## PROJECTS

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**UBC LaunchPad: Workout Personalizer** | *TypeScript, Flutter, Express.js*

September 2021 – May 2022

- Developed a user-friendly UI featuring a dynamic list of exercises, allowing users to conveniently browse and select exercises for their fitness routine
- Built a robust Express.js backend that efficiently retrieves exercise data from a PostgreSQL database, ensuring fast and responsive data retrieval
- Collaborated with a team of junior developers, providing valuable mentorship and guidance as they worked on their first web application project

**InsightUBC Query Application** | *TypeScript, Mocha/Chai*

September 2021 – December 2021

- Developed a comprehensive local test suite using Mocha and Chai, significantly improving code reliability by identifying and capturing mutations in the codebase, ensuring robust and error-free functionality
- Designed and implemented a custom HTML parser, enhancing data extraction capabilities and enabling efficient retrieval of requested information from web sources, reducing manual data processing efforts
- Constructed a set of HTTP endpoints to facilitate adding, removing and querying datasets