Jocelyn Baker

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Full-stack developer experienced in building scalable systems using Java, Python and cloud technologies. Proven track record in Agile environments designing solutions and leading cross-functional teams. Combines technical experience with strong communication skills to deliver user-centric software.

SKILLS

Programming: Java, Python, C/C++, Go, JavaScript/TypeScript, SQL, HTML/CSS

DevOps & Cloud: CloudFlare, Git/GitHub, Docker, CI/CD, TCP/IP, QUIC, SSL

Methodologies: Agile/Scrum, TDD, Object-Oriented Programming and Design, System Integration, REST APIs

Frameworks/Tools: Node.js, OpenGL, React, Tailwind CSS, IntelliJ, VS Code, MySQL, Jira

EDUCATION

University of British Columbia — *BSc, Computer Science* — EXPECTED COMPLETION: DECEMBER 2025

- 93% GPA
- Relevant Courses: Relational Databases, Advanced Networking, Algorithm Design, Software Construction

WORK EXPERIENCE

Lightbox Studios — *Designer, Programmer & Project Manager* — SEPTEMBER 2024 – JANUARY 2025
- Led full development cycle of *Raycast* (puzzle game) in C++/OpenGL, designing physics-based mechanics in a custom engine
- Coordinated 6-person Agile team (Jira/Github Projects), delivering milestones on schedule through sprint planning
- Improved UX through iterative playtesting and feedback implementation

Theislab — *Machine Learning Research Assistant* — MAY 2023 – AUGUST 2023
- Built data pipelines (Python) that reduced prep time for genomic data, accelerating ML model iteration
- Created technical documentation bridging gap between researchers and software

Stewart Blusson Quantum Matter Institute — *Research Assistant* — MAY 2021 – SEPTEMBER 2022
- Automated safety protocols and data analysis via Python and Bash scripts
- Collaborated with researchers using Agile workflows

The Ubyssey — *Humour Editor* — MAY 2023 – MAY 2024
- Led 30-person team (writers, developers, designers) using Scrum

HIGHLIGHTED PROJECTS

Course Info — *Full-stack Scheduling Tool*
- Built interactive campus map with walking time calculations (Next.js/React)
- Designed RESTful API (Node.js) with 100% test coverage (Mocha/SuperTest)

QUIC Decryption Middleware
- Built network security tool in Go to decrypt and inspect QUIC packets per RFC standards
- Stress-tested with 100K+ simulated packets, ensuring reliability under load

Zoo Organizer — *Full-stack Application*
- Designed REST API (Node.js/MySQL) with role-based access control for zoo staff
- Developed responsive frontend with Tailwind CSS