

Jason Li

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EDUCATION

Simon Fraser University <i>BSc. Computing Science - Software Systems</i>	September 2019 – September 2025 Vancouver, BC
• Coursework: Principles of Compiler Design, Data Structures & Algorithms, Distributed Systems, Networking, Database Systems, Embedded Systems, Software Testing, Reliability and Security, Intro Artificial Intelligence	

EXPERIENCE

Software Developer I (Co-op) <i>Improving Vancouver TypeScript, Java, Amazon RDS, Amazon Aurora</i>	January 2024 – August 2024 Vancouver, BC
• Worked on a <u>Java JDBC Wrapper</u> and a <u>NodeJS Wrapper</u>	
• Wrote custom regex to support endpoints from Chinese AWS regions on JDBC Wrapper	
• Ported over 5+ plugins from JDBC Wrapper to NodeJS Wrapper, reducing feature gaps between the two	
• Added features such as AD FS and Okta support into NodeJS Wrapper, allowing for more user flexibility	
• Configured integration tests to run on both LTS and latest database versions, doubling testing pipeline throughput	
• Created performance benchmarks and discovered a potential bottleneck causing a 10x slowdown in the NodeJS Wrapper	
Junior Software Developer (Co-op) <i>Magnitude Software C++, Java, SQL, ODBC, JDBC</i>	January 2022 – August 2022 Vancouver, BC
• Developed unit tests that improved reliability of key features and reduced regressions during development	
• Worked on Primary Key/Foreign Key support for JDBC database driver, allowing for more complete SQL support	
• Collaborated with clients to discuss potential solutions for new features and bug fixes, reducing ambiguity	
• Implemented feature for automatically closing stale HTTP connections, allowing SQL queries exceeding 5 minutes to complete successfully	

TECHNICAL PROJECTS

LinkedIn Experience Checker <i>JavaScript</i>	November 2025 – November 2025
• Developed Chrome extension using JavaScript and HTML to help LinkedIn users find job posting requirements	
• Implemented background process to apply regex on every job description, allowing for smooth user experience	
• Creates list of badges at top of job posting for easy filtering	
• Filters out terms like benefits, vacation, maternity, etc., using a blacklist, to avoid false positives	
Unofficial AniList Clone <i>Python, TypeScript</i>	September 2025 – October 2025
• Built a full-stack web application integrating the AniList GraphQL API to retrieve and display real-time anime and manga data	
• Designed an interactive React + TypeScript frontend with Tailwind CSS for a clean and responsive interface	
• Implemented a FastAPI backend in Python to handle API requests, data processing, and AniList GraphQL queries	
• Developed OAuth 2.0 Authorization Code integration with AniList, enabling user authentication for personalized media lists and progress tracking	
Decaf Compiler <i>Lex, Yacc, Bison, C++</i>	May 2025 – August 2025

• Collaborated with two other classmates to create a compiler for the Decaf language (a Java-like teaching language)
• Handles lexing, parsing, type checking, semantic analysis, and LLVM IR generation for full compiler functionality
• Built ASTs from parsed tokens and generated LLVM IR for code generation
• Supports features such as function calls, semantic checks, control flow, loops, and error reporting
• Performs type checking, and uses symbol tables to manage scope

TECHNICAL SKILLS

Languages: C++, C, Java, Python, TypeScript, JavaScript, SQL, Bash

Libraries/Frameworks: Flask, JDBC, AWS SDK (Java/Node.js), Axios, FastAPI, React, Tailwind CSS

Testing: JUnit, Mockito, Jest, GoogleTest, Mocha

Other Technologies: Git, Perforce, Linux, Amazon Relational Database Service (RDS), Amazon Aurora, Jira, Confluence, MySQL, PostgreSQL, GraphQL