

Jason Li

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EDUCATION

Simon Fraser University

September 2019 – September 2025

BSc. Computing Science - Software Systems

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)

January 2024 – August 2024

Improving Vancouver | TypeScript, Java, Amazon RDS, Amazon Aurora

Vancouver, BC

- Worked on a Java JDBC Wrapper and a NodeJS Wrapper
- 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)

January 2022 – August 2022

Magnitude Software | C++, Java, SQL, ODBC, JDBC

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 | JavaScript

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 | Python, TypeScript

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 | Lex, Yacc, Bison, C++

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