

SEAN LI

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EDUCATION

McGill University

Montreal, Quebec, Canada

Bachelor of Science in Computer Science

2024

Relevant Coursework: *Data Structures and Algorithms, Software Design, Operating Systems, Machine Learning, AI, NLP*

EXPERIENCE

Software Developer Intern

May 2022 – Aug 2022

CIBC

Toronto, Canada

- Accelerated the launch and development of a large-scale distributed backend system for the CIBC Costco credit card, **processing over 1 million transactions per month** by utilizing Spring Boot and microservices architecture to ensure high availability and scalability.
- Enhanced the digital transfers and fund relocation system by establishing Jenkins CI/CD pipelines, using Java, Spring/Spring Boot and Maven for streamlined builds, **impacting over 1M+ users**.
- Analyzed and boosted critical financial transaction modules' reliability by increasing unit test coverage **from 20% to 85% using JUnit and Mockito**.
- Implemented comprehensive RESTful API documentation using Swagger, increasing developer onboarding efficiency and improving collaboration across development and QA teams.

Data Engineer Intern

Jan 2021 – Aug 2021

Bank of Montreal

Toronto, Canada

- Reduced PostgreSQL database data redundancy by 35%** by optimizing database schemas and queries, enhancing data storage efficiency.
- Developed SQL migration scripts, transitioning data from the old IDP database to a new cloud storage platform (AWS), **achieving a 30% improvement in data processing speed and zero data loss**.
- Conducted System Integration Testing (SIT) and User Acceptance Testing (UAT) for BMO credit risk analysis, bolstering system security and reliability.
- Spearheaded data migration and masking for the BMO Credit risk team, **improving credit risk analysis for 7M+ users** using SSIS and PostgreSQL (Netezza).

PROJECTS

ilearnworld | HTML, CSS, JavaScript, MySQL

Jan 2024 – Present

- Led the development of a tutoring platform **connecting 100+ students with 30+ recent graduates** from top universities (e.g., Stanford, Yale) by utilizing JavaServer Faces (JSF), HTML, CSS, JavaScript, and MySQL for a full-stack, responsive web application.

Tab.io | React Native, Firebase, Figma

May 2024 – Present

- Developed a bill-splitting mobile application. Utilized Figma for UI/UX design, constructed the front-end with React Native, and managed back-end and authentication with Firebase, and Google Cloud Vision to allow photos of receipts.

Algebriz | ReactJS, NodeJS, ExpressJS, MongoDB, Socket.io

Sep 2023 – Dec 2023

- Managed a team of 3 and built the web design and functionality of a full-stack web application, a quiz game that **supports real-time connectivity for 30+ players** using Socket.io .

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML, CSS, C, C++

Frameworks/Libraries: React, React Native, MongoDB, TensorFlow, PyTorch, Pandas, Django

Developer Tools: Git, Docker, Maven, JIRA, Swagger

Cloud Technologies: Google Cloud Platform (GCP), Firebase