Daniel Zhang

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Oct. 2023 - Nov. 2023

Experience

Full Stack Developer (Work Learning Experience)

Service Delivery Data Hub Project

Toronto, ON

- Created E2E tests with Cypress and JavaScript to validate dataset upload and management functionality
- Identified testing challenges and proposed strategies to mitigate risks and enhance the testing process

Software Developer Intern

Jan. 2022 - Aug. 2022

Toronto, ON

Caseware International

- Developed a Java + Spring Boot routing microservice to automate and replace a manual reverse proxy
- Reduced average response times of microservice to under 50ms using AWS DynamoDB and ElastiCache Redis
- Enhanced a multi-threaded file upload process in C++, reducing API calls by 20% and upload times by over 100ms

Full Stack Developer Intern

May 2021 – Aug. 2021

Skatescribe Corporation

Markham, ON

- Designed a communication system using Angular, Python, Flask, and Socket.IO to improve system transparency through real-time status updates
- Created an automated tool life tracker with real-time updates and alerts using Python, Flask and PostgreSQL, eliminating manual management
- · Improved product satisfaction by leveraging Pandas and NumPy for data manipulation and feature development

Projects

Ecosquad

- Developed a web app for citizen scientists to record environmental observations using **React**, **TailwindCSS**, and TypeScript for the frontend, with ExpressJS and PostgreSQL for the backend
- Streamlined authentication and authorization with **Auth0**, boosting security and user experience
- Enhanced search performance with Meilisearch, reducing query times by 70% and improving accuracy
- Deployed the app with **Docker** on Digital Ocean, ensuring scalability and reliability

Zoomer

- Engineered a scalable backend microservice architecture for a ride-sharing application in **Java and Maven**
- Integrated **PostgreSQL** within the User Microservice to efficiently handle user accounts
- Leveraged MongoDB in the TripInfo Microservice for managing trip data and driver pairing
- Utilized **Neo4J** in the Location Microservice to optimize driver proximity and route planning algorithms

Pintos

- Enhanced kernel efficiency by optimizing multithreading in C
- · Enhanced thread management and processor use with advanced priority scheduling and donation
- Created a multilevel feedback queue scheduler to optimize thread management and reduce response times

Education

University of Toronto

Honours Bachelor of Science in Computer Science

Sept. 2019 – June 2024

CGPA: 3.47 / 4.0

Technical Skills

Languages: Java, Python, C/C++, SQL (PostgreSQL), NoSQL (MongoDB), JavaScript, Typescript, HTML/CSS

Frameworks & Libraries: React, Node.js, ExpressJS, Flask

Tools and Technologies: Git, Docker, Linux/Unix, JIRA, Postman