

Daniel Zhang

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ABOUT ME

Motivated Computer Science new grad looking to make a meaningful difference. Excellent communication skills alongside a positive attitude ensures any given task will get done in a fashionable manner, while maintaining a collaborative team atmosphere.

EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science

- Specialist in Computer Science - Software Engineering Stream

Toronto, ON

Sept. 2019 – June 2024

EXPERIENCE

Software Developer Intern

Caseware International

Jan. 2022 – Aug. 2022

Toronto, ON

- Designed and implemented a routing microservice using Java, Spring Boot, AWS DynamoDB, and Redis, resulting in a 30% increase in throughput
- Strengthened microservice functionality by developing a comprehensive suite of unit tests using Mockito & JUnit5, leading to 93% code coverage and enabling the team to confidently release features faster
- Reworked a multi threaded file upload process in C++ to optimize performance for larger clients, resulting in fewer API requests and significantly reduced upload times

Full Stack Developer Intern

Skatescribe Corporation

May 2021 – Aug. 2021

Markham, ON

- Designed a new communication and safety system using Angular, Python Flask, and SocketIO, allowing operators to quickly detect errors and unwanted actions
- Engineered an automated tooling system, removing the need for manual tool life tracking and reducing human intervention by 70%
- Leveraged Pandas and NumPy to transform, validate and load blade profiles, achieving an accuracy rate of 99.99% and resulting in improved cut quality and heightened customer satisfaction

PROJECTS

Ecosquad | *React, TailwindCSS, ExpressJS, PostgreSQL, MapLibre GL, Meilisearch, Auth0*

- Developed a citizen scientist web app using React, MapLibre GL, ExpressJS, and PostgreSQL, enabling users to share and view discoveries on an interactive map
- Optimized app functionality by integrating Meilisearch, allowing for advanced searching, sorting, and filtering of posts, leading to a more engaging and personalized user experience
- Implemented a robust RESTful API to efficiently handle data exchange, ensuring seamless communication between the frontend and backend components, and facilitating scalable future development

Service Delivery Data Hub Project | *Cypress, Javascript*

- Contributed to the creation of the End-to-End testing platform for the Newcomer Insight Collaborative platform, with a specialized emphasis on critical pages overseeing the management of uploads, datasets, and service agencies
- Increased testing effectiveness through the implementation of robust test cases for each page and ensuring comprehensive validation of essential functionalities for handling and manipulating client data

TECHNICAL SKILLS

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

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

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