Daniel Zhang

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Education

University of Toronto   Sept. 2019 - Present
Honours Bachelor of Science, Computer Science (Co-op)
- Specialist in Computer Science - Software Engineering Stream

Work Experience

Caseware International   Jan 2022 - Aug. 2022
Software Developer Intern
- 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 & integrating with the build pipeline 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 multithreaded file upload process in **C++** to optimize performance for larger clients, resulting in fewer API requests and significantly reduced upload times

Skatescribe Corporation   May 2021 - Aug. 2021
Full Stack Developer Intern
- 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%

Projects

Ecosquad
- Spearheaded the development of a citizen scientist web app using **React**, **MapLibre GL**, **ExpressJS**, and **PostgreSQL**, enabling users to easily 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

Image Gallery
- Developed a web app using **HTML**, **CSS** and **JS**, letting users to upload and view photos, and also add and moderate comments to improve engagement and community interaction
- Implemented a secure RESTful API using **ExpressJS** and **SQLite**, ensuring user data privacy, security and efficient data storage and retrieval

Asteroids Remake
- Remade Asteroids^{TM} using **Java** and **Java Swing** alongside extra features like powerups to enhance gameplay experience and player engagement

Skills

Languages: C, HTML, CSS, Javascript, Typescript, Java, Python
Frameworks & Tools: Docker, ExpressJS, Node.js, PostgreSQL, React