

Daniel Qu

SOFTWARE DEVELOPER

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Education

University of Waterloo - 92% GPA

B.A.Sc. IN HONOURS MECHATRONICS ENGINEERING

Sep 2020 - Present

Waterloo, Canada

- Computer Structures and RTOS, Microprocessors and Digital Logic, Data Structures and Algorithms

Work Experience

PlayStation - Sony Interactive Entertainment

DEVOPS SOFTWARE ENGINEERING INTERN

Sep 2022 - Dec 2022

AWS, Kubernetes, Jenkins

- Deployed Promtail/Loki/Grafana stack using Helm to aggregate and display logs from hundreds of Kubernetes pods across dozens of development teams, improving the accessibility of application logs.
- Used Python, Jenkins, and Slack integration to monitor and clean up unused AWS EBS volumes.

PlayStation - Sony Interactive Entertainment

FRONT END SOFTWARE DEVELOPER INTERN

Jan 2022 - Apr 2022

React Native, Redux, Python, Jenkins

- Supported the 2022 PlayStation Plus release by implementing new UI features in React Native and Redux.
- Wrote automated Python end-to-end tests for dozens of checkout flows in order to deliver rigorous regression testing for the team.
- Achieved first prize in global internal hackathon by creating a calendar app for the PS5.

Dreamschools

FULL STACK SOFTWARE DEVELOPER INTERN

May 2021 - Aug 2021

React, Express, PostgreSQL, Stripe

- Addressed slow Stripe API calls by parallelizing/batching requests, improving load times by up to 10x.
- Took initiative to improve code quality by creating reusable React components such as modals.
- Developed complete messaging system and chat page using React, Twilio and PostgreSQL to provide SMS and email communication between clients.
- Overhauled checkout process by supporting additional payment methods and simplifying checkout UX.

Projects

Hexle - [Live Link](#)

[GITHUB](#)

Feb 2022 - Mar 2022

TypeScript, React, CSS

- Created a Wordle variant with a friend in React with returning users from over 40 countries worldwide.
- Refactored React state management and components to improve code quality and readability.

Midnight Sun Driver Dashboard - Solar Car Team

[GITHUB](#)

Apr 2021 - Sep 2021

Flutter, Dart, Python

- Built digital dashboard for Midnight Sun's solar vehicle including speedometer, battery life.
- Performed virtual CAN integration testing by mocking CAN messages to send to the dashboard.
- Effectively used Flutter animations to direct driver attention to appropriate locations on the dashboard.

Skills

Languages JavaScript/TypeScript, Python, C, C++, Bash, SQL, HTML/CSS
Frameworks React, Redux, Express.js, Node.js, Flutter
Tools Git, Linux, AWS (EC2, S3), Jenkins, Docker, Kubernetes, Jira