

DAVID LIU

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EXPERIENCE

Software Engineer

Zynga - April 2022 - August 2022

Ruby - Ruby on Rails - MySQL - Docker - Jenkins - Splunk

- Implemented **Hosted Graphite** monitoring within **Ruby on Rails** to track and add alerts to **1000+ metrics** within the main repository
- Wrote **Jenkins pipeline Groovy scripts** to send Slack messages into the developer channel upon test failures on the master branch, decreasing the time to find and fix bugs by **45%**
- Automated the rescue and dead letter queue retry and clear for failed jobs through **cron** within **Ruby on Rails**, decreasing the job failure idle time by over 70%

Full Stack Developer

Cynorix - September 2021 - December 2021

JavaScript - React - Node.js - Express.js - MongoDB - Firebase

- Carried out the end to end development of a web based full stack video chat meeting management platform using **React, Firebase functions, MongoDB** complete with **Twilio** and **SendGrid** two factor authentication
- Implemented a chatbox with features such as creating group chats, online/ away status and editing/ deleting messages in the secure video chat application using **React, Express, MongoDB, Node** and **WebSockets**
- Enhanced security of the web and desktop **Electron** encryption service by adding two factor authentication using **Twilio** and **Sendgrid**, and improving the encryption logic using **AES encryption** and **SHA hashing** from **CryptoJS**

IT Support & Quality Assurance

Pillar to Post - January 2021 - April 2021

Python - Selenium - Azure DevOps - Blackbox Testing

- Increased testing efficiency by **30%** by introducing and implementing automated unit testing with **Python Selenium**
- Developed and iterated through smoke and regression test scripts throughout releases to ensure successful deployments of the web and mobile applications relied upon by **550+** franchise locations across North America
- Maintained clear communication with developers by constructing detailed tickets within **Azure DevOps** to verify fixes and log new bugs

SKILLS

Languages

JavaScript, Java, C/C++, Python, Ruby, HTML, CSS, SQL

Frameworks

React, Express.js, Electron, Ruby on Rails, Next.js

Technologies

Node.js, NoSQL, MySQL, Git, MongoDB, Docker, Jenkins, Splunk, Firebase, Linux, Twilio, WebSockets, Azure DevOps, Salesforce, Selenium, Adobe Creative Suite

EDUCATION

University of Waterloo

September 2020 - April 2025

Candidate for BSc,
Systems Design Engineering

AWARDS

University of Waterloo

President's Scholarship

A Y Jackson S.S.

Graduate Honour Award
Awarded to student with the greatest positive impact on academic and social life

Principal's Award for Leadership

SAC F.C. Lively Award

Dedication to leading the Student Council

TDSAA

Swim city finalist — 2016 - 2020
Badminton, Table Tennis
Regional Champions - 2019

INTERESTS

Badminton, volleyball, portrait photography, fingerstyle guitar, theology, creating food reviews