DAVID LIU



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 resque 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

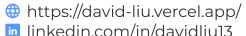
- · Carried out the end to end development of a web based full stack video chat meeting management platform using React, Firebase functions, MongoDB complete with Twilio and SendGrid two factor authentication
- · Implemented a chatbox with features such as creating group chats, online/ away status and 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



- ☑ david.liu2@uwaterloo.ca
- https://github.com/d282liu



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 BASc. 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