

# DAVID LIU

## EXPERIENCE

### Full Stack Developer — Cynorix

September 2021 - December 2021

Developed from scratch a web based full stack video chat meeting management platform using a **React** frontend, **Firebase functions** backend, **MongoDB** database complete with **Twilio** and **SendGrid** two factor authentication

Implemented a chatbox with various features such as group chats, online status and edit/ delete messages in the 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

Increased testing efficiency by **30%** by introducing and implementing automated unit testing with **Python Selenium**

Created an interactive video course to teach the basics of **Salesforce** and document daily workflows of the IT Team, decreasing onboarding time by **a week**

Developed and iterated through smoke and regression test scripts throughout releases to ensure successful deployments of the company's web and mobile applications

Constructed detailed tickets within **MS Azure** to verify fixes and log new bugs maintaining clear communication with developers and preserving a smooth Software Development Lifecycle

## PROJECTS

### ChiDes — Hack the North 2021

Built a web app for users to coordinate meet-ups and record previously visited locations using **Next.js**, **Node**, and **Firebase** for authentication and the database

### CoRunna — TOHacks 2021

Built a web app using **React**, **Node** and the **Google Maps API** to map the safest and most socially distant route for users

### DOJO — Hack the North 2020

Developed a video calling web application where users can share skills with one another using **React** and **Node**, leveraging the **Vonage API**

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 <https://github.com/d282liu>

## SKILLS

### Languages

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

### Frameworks

React, Express, Electron

### Technologies

Node, Firebase, Figma, Git, Adobe Creative Suite, Azure, Salesforce, Selenium, MongoDB, Linux, Next.js, Twilio, WebSockets

## EDUCATION

### University of Waterloo

2020 - 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

### DECA Ontario

HLM Provincial Champion,  
ICDC Qualifier 2020

### TDSAA

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

## INTERESTS

Swimming, badminton, photography, guitar, gaming, drink engineering