

■ me@sunnyzuo.com | • github.com/sunny-zuo | • sunnyzuo.com | • sunnyzuo

Skills

Languages: JavaScript, TypeScript, Java, Python, C, C++, ActionScript 3, HTML/CSS

Technologies: Node.js, React/React Native, Angular, MongoDB, PostgreSQL, Express, Flask, socket.io

Experience ____

ECSSEN Career School Calgary, AB

SOFTWARE DEVELOPER

Jul 2020 - Nov 2020

- Built and deployed DeFi (decentralized finance) smart contracts using C++ for EOSIO blockchains
- Designed and developed a frontend to allow users to interact with smart contracts using **React, eosjs, and scatterjs**

YYC Science Bowl Calgary, AB

DIRECTOR OF TECHNOLOGY

May 2019 – Aug 2020

- Designed and built a website to reach interested participants, increasing the number of competitors by over 30%
- Created custom web-based buzzer solution for competition use using Angular, Node.js, Express, and socket.io increasing buzzer accuracy to 100%

University of Calgary Calgary AB

ASSISTANT INSTRUCTOR

Aug 2018, Aug 2019

- · Assisted students with designing, building, and debugging Flash games built using ActionScript 3 and JavaScript
- Created and taught lesson on building multiplayer games using websockets and deploying servers to Heroku
- Received **100% positive feedback** from instructors and 30+ students

Projects _

SmartGarden ☑

sunnyzuo.com/garden

- Created full stack mobile application using **MongoDB, Express, React Native, and Node.js** for smart plant management
- Designed and developed Android app UI with Material Design, allowing users to view plant health metrics and issue commands
- Utilized serial ports for bidirectional communication between the server and Arduino, allowing commands triggered via a **REST API** to be executed and plant health metrics measured to be aggregated and stored in a MongoDB database

DoxMy,Tech ☑ doxmy,tech

- Built full stack web application using React, Flask, Python and PostgresSQL allowing users to analyze their social media profiles
- Developed data pipelines allowing social media data to be cleaned, formatted properly and stored in a PostgresSQL database
- Integrated Azure Text Analytics for sentiment analysis and named entity recognition for automated OSINT (open source intelligence)

Sir Goose Bot 🖸 sunnyzuo.com/goose

• Created an authorization layer on Discord using UWaterloo's LDAP, supporting 900+ users with Node.js, MongoDB, and Discord.js

Arbitrage Finder

- Developed tool using Node.js that aggregates odds data from a number of sports-betting platforms utilizing GraphQL APIs, REST APIs, and automated web scraping using Puppeteer
- Designed algorithm to analyze data and match identical markets and events to find arbitrage opportunities

Cybersecurity CTF Writeups ✓

sunnyzuo.com/ctf

- Authored writeups for various cybersecurity/infosec CTF (Capture the Flag) event challenges
- Solved challenges primarily centered around web exploitation skills such as **XSS attacks**, **SQL Injections**, path traversal attacks, and general scripting in JavaScript and Python
- Built website to display writeups using **Gatsby** and **GraphQL** that automatically generates writeup pages from Markdown

Education _

University of Waterloo

Waterloo, ON

Sep 2020 - Apr 2025