

me@sunnyzuo.com | 🖸 sunnyzuo | 🗞 sunnyzuo.com | 🛅 sunnyzuo

Skills

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

Technologies: Node.js, React/React Native, Angular, MongoDB, Express, socket.io, Flash, Adobe AIR

Experience _____

ECSSEN Career School Calgary, AB

SOFTWARE DEVELOPER

Jul 2020 - Nov 2020

Aug 2018, Aug 2019

Built and deployed DeFi (decentralized finance) smart contacts 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

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

Assistant Instructor

- Assisted students with designing, building, and debugging software built using **ActionScript 3 and JavaScript**
- Created and taught lesson on building multiplayer games using websockets
 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

Sir Goose Bot 🕜 sunnyzuo.com/goose

• Created an authorization layer on Discord using UWaterloo's LDAP, supporting 800+ 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 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-writeups

- 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**

Awards _____

Sep 2020 President's Scholarship of Distinction

University of Waterloo

Mar 2020 Think Award and Invitation to World Championship

VEX Robotics

Awarded for the most effective and innovative use of programming in provincial championships

Education

University of Waterloo
CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING (BSE), HONOURS

Waterloo. ON

Sep 2020 - Apr 2025

CANDIDATE FOR DACHELOR OF SOFTWARE ENGINEERING (DSL), HONOURS

93.8% GPA, SE Soc Representative