ANUJAN MATHISEKARAN

✉ amathise@uwaterloo.ca 🌐 anujan.me in anujanm 🐙 AnujanMath

SKILLS

LANGUAGES   Javascript, Python, Java, C++, C, HTML5, CSS3

TECHNOLOGIES   Node, Bootstrap 4, MongoDB, Express, jQuery, Git, Passport

PROJECTS

BobaKey
- Created a Yelp-inspired review site targeted towards bubble tea consumers in the Waterloo area using **Javascript** and a **RESTful API**
- Ensured data persistence using **MongoDB** and user I/O from a **JSON** file using **Node**
- Implemented user authentication using **Passport** enabling editing of user reviews and comments

Wi-Fi Controlled Raspberry Pi Rover
- Collaborated in a team of three to demonstrate client to server data transfer using socket programming in **C**, allowing universal device control over Wi-Fi
- Integrated motor driver with Pi and created a custom chassis
- Implemented a watchdog timer and logging service to assist with the debugging process

Recieved - Most Disruptive Hack and Best Environmental Hack at tHacks 2
- Worked in a team of four to prototype an app that sends consumers digital copies of their receipts
- Generated sample receipt data using Walmart Open API and **Python** for testing and presentation

Clockwork Solitaire
- Developed a variation of solitaire with graphics using **Java**
- Utilized **Object Oriented Programming** principles to implement cards and decks for the game
- Created functional UI using **Java Applet** and preserved users' high scores with a text file

EXPERIENCE

WATonomous Self-Driving Vehicle Team · Path Planning Software Developer   Jan. 2019 to Current
- Utilized **Matlab** and **Simulink** to build autonomous vehicle path planning software, with the end goal of having a level four autonomous vehicle.
- Collaborated in a team of four to meet deadlines and push appropriately to version-control software

City of Markham · Camp Counselor   Mar. 2018 to Sept. 2018
- Organized activity plans for students aged 5-13
- Upheld curriculum standards set by following the High Five Principles of Healthy Child Development
- Exercised public speaking and communication skills with parents and campers

AWARDS

Adel S. Sedra Undergraduate Scholarship · University of Waterloo   Sept. 2018

Most Disruptive Hack & Liovena's Best Environmental Hack · Toronto Hacker Club   Oct. 2017

Engaging in Entrepreneurship & Engineering Competition Winner · University of Waterloo   Aug. 2017

EDUCATION

University of Waterloo   Apr. 2023
Candidate for BASc - Computer Engineering