Prajval Malhotra

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Education

University of Waterloo Waterloo, Ontario

BACHELOR OF COMPUTER SCIENCE, DIGITAL HARDWARE SPECIALIZATION

Sseptember 2020 - May 2024

• Relevant Coursework - - Functional programming, Algorithm Design and Data Abstraction, Linear Algebra, Calculus I II, OOP, Testing, Bash Scripting

Skills _

Languages Python, C, Racket, HTML5, CSS3, Javascript **Frameworks** React, React Native, Tensorflow, Node.js

Experience

Trinity Group Remote

SOFTWARE ENGINEERING INTERN

May 2021 - June 2021

- · Worked with the entire project team to balance creative objectives with business needs and technical requirements.
- Worked with frameworks such as React Native, React.js, Node.js, Express.js, and MongoDB
- Created entire frontend of app with React Native, 500+ users on a daily basis. Made minor changes to previous designs.
- Worked on backend with Node.js, Express.js. Wrote Unit and Integration tests using Jest.

Coding tuitions Kolkata

TUTOR March - July 2020

- Taught basic C++ syntax, OOP principles to high school students
- Helped clear and streamline concepts for computer science exams.

Projects _

Covid Aggregator ?

REACT NATIVE, NODE.JS, MONGODB

June 2021

- · An app to provide a user with information about available vaccines centres near them, people willing to donate useful resources
- Created REST API with Node.js, Express.js and used MongoDB for the Database. Shows data from vaccine centres across the country
- Used React Native to create the frontend. Deployed API to Heroku
- Originally created frontend in a group setting of 3 people for TOHacks, personally pursued the project to make a it a fullstack app.

TodoTDD (?)

JAVASCRIPT, TEST DRIVEN DEVELOPMENT

August 2021

- Used a Test Driven approach to develop a REST API for a Todo app with Node.js and Express.js
- Created Unit tests and integration tests with Jest, wrote tests for error handling
- Created mock Mongoose models in Node.js with Jest

MNIST gesture recognizer (?)

Tensorflow July 2021

- Used Tensorflow to create a gesture recoginzer trained on the MNIST dataset
- Increased accuracy by using CNNs to upto 98%, measured accuracy of model with testing dataset
- · Used trial and error to determine the best ratio of trial vs test data

Nice Chat App 🗘 🗞

REACT.JS, FIREBASE July 2021

· Real time chat app, Firebase for Google authorisation, realtime database and backend, React.js for the frontend.

Live User Counter (7

Dart, Firebase August 2021

• Component which keeps track of when a user opens/exits an app to keep track of the total number of users currently online

Bots O O EngHacks

PYTHON June, 2021

- UWFlow Bot A reddit bot that replies to mentions of a UWaterloo course on the UW subreddit and replies with course infromation
- SpotBot Utilized OAuth2 with Flask to get a users playlist and display it on the discord chat when a particular command is entered.