Prajval Malhotra

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Education

University of Waterloo   *Waterloo, Ontario*

BACHELOR OF COMPUTER SCIENCE, DIGITAL HARDWARE SPECIALIZATION (GPA - 3.7)   *August 2020 - July 2024*

- **Term 1A** - *Designing Functional Programs, Linear Algebra, Calculus 1*
- **Term 1B** - *Elementary Algorithm Design and Data Abstraction, Linear Algebra 1, Calculus 2, Digital Circuits and Systems*

Skills

Languages   Python, C, VHDL, Racket, HTML, CSS
Frameworks   React, React Native, Node.js, Flutter

Projects

Word Suggest

C   *March 2021*

- A word autocorrect program implemented in C
- Created module (triple-s) to aid main function, followed a style pattern and completed documentation
- Implemented the triple-s module using linked lists and dynamic arrays

HandMeDown   *Hack the North*

JAVASCRIPT(NODE.JS, EXPRESS.JS, MONGODB), FLUTTER   *January 2021*

- An app that connects the underprivileged (receivers) with donors
- Created a REST API with node.js, express.js, and mongoDB to handle CRUD requests, store data on mongoDB in JSON format
- Used the GeoLocation API to get distance of Donator from Receiver, display all Receivers within a particular radius

Unistroke gesture recognizer

RACKET   *November, 2020*

- Developed an algorithm to identify drawn unicode gestures using only functional programming concepts
- Wrote tests to check correctness of code
- Consistently followed a style guide and wrote neat code

myBlogger

HTML, CSS, JAVASCRIPT(NODE.JS, EXPRESS.JS, MONGODB)   *September, 2020*

- A blog website that can handle CRUD requests
- Created a Model and Schema for working with the database

UWFlow Bot   *EngHacks*

PYTHON   *June 2021*

- Reddit bot that displays course information for every comment with a valid course ID
- Used PRAW to access the Reddit API

Experience

UW Midsun

(ONGOING, STARTED - JUNE 2021)

- Expect to work on implementing features for solar car in firmware team in university level making competition

Coding sessions

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

Extracurriculars and Awards

Presidents Scholarship of Distinction   *University of Waterloo*

AWARDED UPON ADMISSION INTO UNIVERSITY   *2020*

Scholar Badge   *Delhi Public School*

AWARDED FOR EXCELLENT ACADEMIC PERFORMANCE   *2018, 2020*