Prajval Malhotra

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Education

University of Waterloo *Waterloo, Ontario*
BACHELOR OF COMPUTER SCIENCE, DIGITAL HARDWARE SPECIALIZATION *August 2020 - July 2024*
- **Term 1A**, GPA: 3.7 (83.8%) — *Designing Functional Programs, Linear Algebra, Calculus 1*
- **Term 1B**, Ongoing — *Elementary Algorithm Design and Data Abstraction, Linear Algebra 1, Calculus 2*

Skills

Languages	JavaScript, C, C++, Dart, Racket, HTML, CSS, MySql
Frameworks	Node.js, Flutter
Tools	Git, Excel, Word, PowerPoint

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
- Demonstrated concepts like dynamic memory, string manipulation, abstract data types

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
- Created app using Flutter

Unistroke gesture recognizer
RACKET *November, 2020*
- Developed an algorithm from scratch 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
- Created dynamic HTML pages with ejs

Experience

Hoomans of Calcutta *Kolkata, India*
VICE-PRESIDENT *April - August, 2020*
- Organised events, donation drives
- Came up with creative ideas to help the underprivileged

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*