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DHRUV MALIK

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Education

B.Sc., Major in Computer Science
University of British Columbia
Average: 76.3% (B+), Graduated Fall 2022

Skills

| JavaScript | Python | Java | Node.js | TypeScript | React | Vue.js | Svelte | Express | HTML |

| CSS | Git | OAuth | DigitalOcean | CloudFlare | Web Security | MongoDB | SQL | Figma | Jira |

Work Experience

Full Stack Developer - Intern
Tata Consultancy Services
May 2019 - July 2019

- Upgraded a support services chatbot with the aim of improving the accuracy of responses.
- Developed an 'intelligence layer' consisting of intent detection, entity detection & context detection to facilitate the same.
- Achieved **70% improvement in the accuracy of chatbot responses.**

Technologies: Node.js/Express (**REST API**), Brain.js (**Machine Learning**), Natural (**Natural Language Processing**), SQL

Backend Developer - Intern
MyGov (India)
May 2017 - July 2017

- Built and retrofitted a 'gratification service' to disburse reward points and badges to users for their activity across MyGov portals, with the aim of improving engagement on the platform.
- Developed a **scalable** REST API to fetch points/badges, record and calculate points based on user activity and author schemes governing the disbursal of points/badges **for the 9.4 million daily active users** on the platform.
- The service **helped improve daily engagement by ~12%.**

Technologies: Node.js/Express (**REST API**), MongoDB

Projects

Employee Directory for Associated Engineering
- Coordinated with geographically distributed management and technical teams using agile methodologies to conceptualise, rebuild & modernise the frontend of an employee directory web application for Associated Engineering.

Technologies: React, PWA, Material UI, IndexedDB

Aquaduct
- Teamed up with a group of four to design and build a SMS-based chatbot to bring basic internet access to feature phone users and areas without internet coverage. Submitted to nwHacks 2020.

Technologies: Node.js, RiveScript, Twilio, MongoDB

Alpha Calorie Tracker for UBC Students
- Collaborated with a team of four to build a web application that helps students discover food options on campus based on their monitored daily caloric and macronutrient intake.

Technologies: React, Node.js, Material UI, MongoDB, TypeSense

Achievements

3rd (out of 71 teams) - Maple CTF 2022
- UBC's annual ethical hacking competition.
- Competed as a team of four.
- Solved Web Application Security related problems.

38th (out of 626 teams) - Google CTF 2020
- Ethical hacking competition organised by Google.
- Competed as a part of the Maple Bacon team, representing UBC.
- Solved problems related to Web Security.

Certifications

Udacity Nanodegree: Ethical Hacking

Microsoft Specialist: Programming in JavaScript with HTML5 & CSS3

Microsoft Certified Professional

Academic Awards

Outstanding International Student of the Year
University of British Columbia (2018-19)