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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 (Available from April 2023)

## Skills

**Languages:** JavaScript, Python, Java, HTML, CSS, SQL

**Frameworks/Libraries:** Node.js, Express, Fastify, Auth0, TypeScript, NativeScript, React.js, Svelte, Vue.js, Astro, Tailwind

**Testing:** Chai, Mocha, JUnit

**Developer Tools:** Git, DigitalOcean, Cloudflare, AWS, Figma, Jira

**Industry Knowledge:** Web Application Security, Research, Collaboration, Documentation

## 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 disbursement 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

### Aqueduct

- 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

**Dev Academy: Web Security for Developers**

**Microsoft Specialist: Programming in JavaScript with HTML5 & CSS3 (& Microsoft Certified Professional)**

**Udacity Nanodegree: Ethical Hacking**

## Academic Awards

**Outstanding International Student of the Year**

University of British Columbia (2018-19)