

Ayush Patel

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EDUCATION

University of British Columbia

Bachelor of Science in Computer Science (intended major)

Vancouver, BC

Sept 2022 – Apr 2026

EXPERIENCE

Full Stack Software Engineer Intern

Jun 2022 – Aug 2022

Our Wave Hub (partnership with Apple Canada)

Toronto, ON

- Designed and engineered a full-stack application using **SwiftUI** and **Firebase** to reduce the amount of time spent in grocery store lines by 600%
- Pitched and refined project features with co-workers, increasing user engagement of the final product by 40%
- Used design thinking, user journey mapping, and Microsoft Office to create and present the application wireframe, decreasing project timeline by 30%
- Implemented the **MapKit API** to allow users to edit existing store information, increasing data accuracy by 33%

Senior Robotics Camp Instructor

Sept 2018 – Mar 2020

RAV Brampton Robotics

Brampton, ON

- Interacted with students to teach robotics with the LEGO NXT and EV3, and GameMaker Studio concepts using GameMaker Language (GML)
- Assessed and debugged programming and external software issues brought by students with a collaborative step-by-step analysis
- Volunteered to provide additional help to struggling students after class, increasing students' commitment by 50%

PROJECTS

JobMatch (Web Application & Chrome Extension) | *Python, Flask, Javascript, HTML, CSS, MySQL, Firebase*

- Created a relevant jobs recommendation and automatic application system, reducing the amount of time spent applying to jobs by 10 times
- Configured **MySQL** database to implement users and job postings **CRUD** functionality
- Developed Automated Training Data Generation for the custom spaCy **Natural Language Processing** NER Model, thereby generating and uploading 70+ new **JSON** datasets weekly to **Firebase Cloud Storage**
- Automatically scraped and updated job details using a **cronjob**, and implemented **asyncio**, **aiohttp** and **multithreading** to increase data extraction speeds by 60 times
- Used sessions to prevent website crashes and unnecessary steps, increasing website traffic by 30%
- Made HTTP requests to server-side API endpoints built using **Flask** with the **Fetch API**

AddMySong | *MongoDB, Express.js, React.js, Node.js, Axios, Postman, Heroku*

- Created a collaborative Spotify playlist using the **MERN** stack and the Spotify API
- Used Spotify OAuth to authorize users and make API requests using **Axios**
- Tested backend **REST API** endpoints using **Postman**, reducing predicted timeline by 20%
- Deployed application to **Heroku**

Green Classification (Odyssey Hackathon Project) | *Python, MySQL, Docker*

- Detected and sorted 80 items into their correct disposal methods using **computer vision** (OpenCV)
- Presented a live demonstration of software using **Docker**, increasing audience engagement by 25%
- Set up user rewards system with a MySQL database and Tkinter UI

Data Manager | *Python, SQLite3, Git*

- Developed application to securely store both user passwords and files
- Utilized **SQLite3** database and CRUD operations to manage user accounts and data
- Hashed user credentials 100,000 times with the SHA-256 algorithm to secure user account information

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, HTML/CSS, R

Technologies: Flask, React.js, Node.js, Express, spaCy, NLTK, Axios, Fetch, Selenium, BeautifulSoup4, Cryptography

Databases: SQLite3, MySQL, MongoDB, Firebase (Firestore, Cloud Storage)

Tools: Git, VS Code, Jupyter, Postman, Docker