Abhi Verma Computer Engineering Student

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EDUCATION

University of British Columbia Bachelor of Applied Science - Computer Engineering

• Trek Excellence Scholarship - Awarded for being in top 5% of Engineering faculty

PROFESSIONAL EXPERIENCE

UBC x AWS Cloud Innovation Centre, Vancouver, British Columbia **Software Engineer Intern**

May 2024 - Present

Expected Graduation: May 2026

- Led the development of a cloud application in collaboration with the Stewart Blusson Quantum Matter Institute to consolidate quantum materials, research papers, and other data into a centralized platform
- Implemented and fine-tuned **LLMs** with **RAG** using **LangChain** and **Bedrock** to allow users to query a database using conversational prompts and receive contextually relevant information
- Leveraged AWS cloud technologies to design, develop and deploy scalable solutions for multiple realworld challenges based on customer specifications
- Collaborated within a diverse team of developers and stakeholders, presenting technical solutions and documenting each phase to ensure smooth deployment

UBC Launch Pad, Vancouver, British Columbia **Software Developer**

January 2023 - Present

- Utilized AWS S3 and Svelte to create a web-based application for efficient document management, improving accessibility and organization of Launch Pad's resources
- Incorporated an intermediary **PlanetScale SQL** database to store documents' metadata allowing for the ability to query, search, and filter sensitive information
- Developed mobile and web applications using front and backend tools within a professional framework

PROJECTS

Faculty CV, github.com/UBC-CIC/FacultyCV

- Engineered an AWS and React-powered platform for the UBC Faculty of Medicine to streamline creation of CVs, enhancing operational efficiency across 19 departments, 3 schools, and 25 research centers
- Integrated external data sources and datasets by developing robust pipelines that fetch, clean and store raw data from APIs and CSV files uploaded to S3 buckets into a RDS PostgreSQL database
- Automated CV generation using Lambda function hosted in a Docker container to convert LaTeX to PDF

Spotify Playlist Generator, github.com/abhiverma13/Spotify-Playlist-Generator

- Constructed a music exploration and playlist management web app utilizing Flask, Spotify API, and a
 responsive front-end made with HTML, CSS, and JavaScript to elevate user engagement
- Produced features for exploring, creating, and filtering playlists, as well as finding similar songs based on user preferences

Movie Review App, github.com/abhiverma13/Movie-Review-App

- Built a full-stack web application allowing users to view latest releases on homepage, search for any movie, and post reviews
- Used The Movie Database API for backend functionality with Express.js and MongoDB, and programmed a responsive frontend with HTML, CSS, and JavaScript

EpiLog, github.com/ubclaunchpad/epilog

- Gained proficiency in **Flutter** to construct mobile health application designed to aid individuals with epilepsy, providing a deep understanding of software development lifecycle
- Conducted code reviews and rigorous application testing to identify and debug errors

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, HTML, CSS, JavaScript, TypeScript, SQL **Frameworks and Libraries:** React, Jest, Flask, JUnit, Svelte, Flutter, Node.js, Express.js, Pandas, NumPy **Software Tools:** AWS, Docker, Linux/Unix, REST APIs, GraphQL, MongoDB, PlanetScale, Git, Asana