

# Abhi Verma Computer Engineering Student

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## EDUCATION

University of British Columbia

Expected Graduation: May 2026

**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

May 2024 – Present

**Software Engineer Intern**

- Developed a web application leveraging an **LLM** using **Bedrock** in collaboration with the Stewart Blusson Quantum Matter Institute to allow users to interact with a database through conversational prompts
- Implemented **RAG** using **LangChain**, enhancing the **LLM's** capability to deliver accurate and contextually relevant responses
- Leveraged **AWS** cloud technologies to design, develop and deploy scalable solutions for multiple real-world 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

January 2023 – Present

**Software Developer**

- Utilized **AWS S3** and **Svelte** to implement a web application used 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
- Created mobile and web applications using front and backend tools within a professional framework

## PROJECTS

**Faculty CV**, [github.com/UBC-CIC/FacultyCV](https://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](https://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](https://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](https://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++, JavaScript, TypeScript, HTML, CSS, SQL

**Frameworks and Libraries:** React, Pandas, NumPy, Jest, Flask, JUnit, Svelte, Flutter, Node.js, Express.js

**Software Tools:** AWS, Docker, Linux/Unix, REST APIs, GraphQL, MongoDB, PlanetScale, Git, Asana