

Apram Ahuja

+1 778 886 3831 | apri@student.ubc.ca | [linkedin.com/in/apram](https://www.linkedin.com/in/apram) | github.com/apramm | apramahuja.vercel.app

EDUCATION

University of British Columbia

Vancouver, BC

Bachelor of Computer Science with Minor in Data Science (Co-op)

September 2021 - Present

Awards: Dean's Honor List recognition (2022W, 2023W)

Courses: Machine Learning, Software Construction, Operating Systems, Object Oriented Programming, Algorithms

SKILLS

Languages: Python, .NET, C#, C, C++, JavaScript, Java, PHP, Bash, SQL, HTML

Technologies: Git, Jenkins, Flask, React, Next.js, Three.js, Express, Angular, PyTorch, pandas, Spark, Hadoop

Testing: JUnit, Jest, Selenium

Cloud & Databases: Amazon Web Services (AWS), GCP, Azure, MongoDB, Oracle SQL, MySQL, Docker, Tableau

Concepts : Computer Architecture, Data Structures, REST, Multi-threading, Agile Methodologies, Matrix Algebra

WORK EXPERIENCE

Software Development & DevOps Engineer

September 2024 – Present

Optum - UnitedHealth Group | C#, .NET, GCP, Jenkins, JFrog Artifactory, VisualBuild

Richmond, BC

- Migrated existing infrastructure to utilize GCP, Artifactory & CI/CD pipelines, .NET & C# for over **10+** projects
- Built **GitOps** workflow, **Nupkg** files for continuous deployment using AgroCD and Powershell Scripts to migrate **100+** repositories from TFS to Gitlab and improved **JIRA** workflow, Kanban Board enhancing productivity

Undergraduate Teaching Assistant

January 2025 – Present

UBC Computer Science | Python, Algorithm Design and Optimization

Vancouver, BC

- TA for CPSC 320 **Intermediate Algorithm Design & Analysis** to assist students with complex concepts like dynamic programming, greedy algorithms, recursions, p & np problems using effective **communication skills**

VOLUNTEER EXPERIENCE

Machine Learning Engineer

September 2024 - Present

UBC Agrobot - Applied AI Team | Python, OpenCV, PyTorch

Vancouver, BC

- Created a **custom OpenCV solution** for ripe & unripe blueberries image segmentation
- Implemented regularization techniques, like early stopping, to prevent over-fitting on training dataset of 686 images

PROJECTS

🕒 Ecowander.ai | AWS EC2, Bedrock, Lambda, Typescript, Flask, Llama3

October 2024

- Developed a travel itinerary generator for a sustainable travel planning based on the several factors such as granularity, must-see places, budget and won the **runner-up** for AWS x CIC Hackathon
- Deployed on EC2 instances within **6 hours** & incorporated few-shot learning strategy using Bedrock & Lambda

🕒 Plant Whisperer (nwHacks MLH Prize Winner) | Python, Taipy, Flask, MongoDB, GPT 4

January 2024

- Developed a plant-care web application using **Taipy, MongoDB** and refactored to build a mobile application using **Flask**, overcoming the challenge of integrating Taipy (new framework with no resources) using documentation
- Designed **MongoDB schema** for plant data with up to 16 attributes, for enhanced data integrity and reliability
- Integrated backend with Web API such as **OpenAI & PlantID API using Fast API containerization**, enhancing data migration & enabling users signed in using SSO to get quick and accurate treatment suggestions

🕒 Zoo Management System | Oracle SQL, PHP, Bootstrap, Git, Figma

July 2023

- Developed a full stack data warehouse dashboard allows users to CRUD and find exhibitions & animals
- Designed a relational schema and normalized to BCNF to reduce redundancy and data anomalies in data

🕒 Online Banking Application | Java, IntelliJ, JUnit Testing, JSwing, JSON

May 2022

- Developed **Java** application adhering to design patterns & software development life cycle to facilitate user stories
- Created and executed test plans using **JUnit** achieving comprehensive unit test coverage and seamless debugging
- Implemented GUI using **JSwing** as well as performed refactoring to enable saving and loading of data using **JSON**