Apram Ahuja

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EDUCATION

University of British Columbia — Vancouver, BC

Bachelor of Computer Science with Minor in Data Science; GPA: 4.00/4.33 — *Sept. 2021 – Present*

- **Courses**: Operating Systems, Database Management, Computer Architecture & OOP, Data Structures
- **Volunteer**: Machine Learning Engineer (UBC Agrobot), Orientation Leader, Logitics Coordinator (SUS)
- **Awards**: Dean's Honor List recognition (2022, 2023)

TECHNICAL SKILLS

Languages: TypeScript, Python, Java, C++, C, SQL, PHP　　**Tools**: AWS, Git, Jenkins, GCP, Docker
Frameworks: React, Express, Flask, SpringBoot, pandas, Selenium　　**Unix**: Bash, Linux, .NET, CMake, TCP

EXPERIENCE

Aquatic Informatics (Veralto) — Vancouver, BC

Software Engineering Intern — *September 2025 - December 2025*

- **Aquarius Java SDK**: Patched security vulnerabilities and fixed major OffsetDateTime serialization bugs, improving backend reliability and test coverage by **50%** through automated AppVeyor CI/CD pipelines (Java, JUnit)

Emerging Media Lab — Vancouver, BC

Software Developer — *May 2025 - September 2025*

- **LoveLoop**: Developed an **open source game** in agile environment providing training on STM fertility method using **UnrealEngine**; for spreading awareness about natural contraception methods to couples around the globe
- **DevHub**: Built an **internal database** for storing all the past projects and deployed development tools in a mono-repo setup for easy knowledge transfer within the lab and availability of existing tools

UBC Computer Science Department — Vancouver, BC

Undergraduate Teaching Assistant | CPSC 320: Intermediate Algorithm Design and Analysis — *Jan 2025 - Present*

- **Tutorial Delivery**: Delivered tutorials on algorithm development (graph theory, DP, greedy, divide & conquer) to **100+** students with **90%+** positive feedback improving problem solving through effective communication skills

Optum (United Health Group) — Richmond, BC

Infra & DevOps Engineer Intern — *September 2024 - May 2025*

- **Deployment Automation**: Automated publishing of NuGet packages (`.nupkg`) on JFrog with Bash, JFrogCLI, Jenkins. Involved features such as **regex-based** artifact name validation, error resolution for failed builds, and modular scripts adaptable to any build pipeline, accelerating developer access to latest builds by $\sim$ **40%**
- **Installer Development**: Engineered .NET installer (C#, WiX, NuGet) for a Q1 2025 launch, automating dependency harvesting and testing on GCP compute engines, enabling **100%** deployments across QA, production
- **CI/CD Acceleration**: Packaged scripts/data into NuGet and deployed on GCP Compute Engines using native YAML/JSON configs, cutting QA test cycles by **50%** while ensuring **HIPAA-compliant deployments**
- **Migrated Version Control**: Migrated **50+** repositories from TFS to GitLab using GitOps pipelines (ArgoCD, PowerShell), with branch policies, GitLab Runners, and JIRA automation to ensure systematic, on-time migration

PROJECTS

☑ **UBC Sections**: Data analytics platform using TypeScript, React, Mocha, Express with **REST APIs** and EBNF-based query engine, processing **50K+** records and achieving **99.3%** test success through black-box and Jest UI testing

☑ **EcoWander (AWS x CIC runner-up)**: Travel itinerary generator using TypeScript, Flask with AWS Bedrock few-shot learning generating 50+ itineraries shareable on social apps, deployed on AWS EC2/Lambda with **100%** uptime

☑ **PlantWhisperer (MLH nwHacks 2024 winner)**: RAG app using Python (FastAPI, openCV, Taipy), MongoDB (NoSQL) and OpenAI API that improved plant health tracking while reducing latency by **30%** than similar plant-care apps

☑ **Zoo Management**: Designed **Oracle SQL** data warehouse with PHP dashboard, enforced BCNF normalization, reducing anomalies by **50%**, and implemented full **CRUD** support

☑ **Easy Banking**: Banking App using **Java (MVC & Observer design patterns, Swing)** with JSON persistence, **100%** JUnit coverage, enabling reliability and easy debugging