

Apram Ahuja

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EDUCATION

University of British Columbia

Bachelor of Science in Computer Science

- GPA: 4.00/4.33, Dean's Honor List (2022, 2023)

- **Relevant Coursework :** Operating Systems, Object-Oriented Programming, Machine Learning, Graphics

September 2021 – Present

Vancouver, BC

TECHNICAL SKILLS

Languages: Java, Python, C++, C, TypeScript, SQL, PHP, .NET

Frameworks: React, Express, SpringBoot, Flask, pandas

Developer Tools: AWS, Git, Jenkins, GCP, Docker, Bash, Linux

PROFESSIONAL EXPERIENCE

Mastercard

Incoming Software Engineer Intern

May 2026 – September 2026

Vancouver, BC

Aquatic Informatics (Veralto)

Software Engineer Intern — Java, Spring Boot, AWS, Docker, PostgreSQL, C#

September 2025 – December 2025

Vancouver, BC

- Boosted update performance by **150%** through optimized persistence logic using **Hibernate**, added IT, performance and end-to-end tests preventing regressions, eliminating customer timeouts and reducing support load
- Prevented recurring production outages by diagnosing container shutdown thresholds and implementing automated alarms using **AWS ContainerInsights**, **CWAgent** and **CloudFormation**, reducing unalerted crashes by **100%**
- Developed missing serializer/deserializer modules and patched critical security vulnerabilities in **Java SDK**, restoring enterprise client compatibility; introduced automated tests and CI/CD in TeamCity, cutting release times by **40%**

Emerging Media Lab

Software Developer — Unreal Engine, C++, Perforce, AWS, Figma, Blender

May 2025 – August 2025

Vancouver, BC

- Built **LoveLoop** an **open source** Unreal Engine game (C++) in Agile team of 4 using **Perforce** for version control, increasing natural contraception awareness in **1000+** couples by over **40%** through gamified learning
- Led development of **AWS S3 storage** and monorepo documenting all legacy tools and projects, cutting demo preparation time by **50%** and eliminating redundant redevelopment in new project pipelines

UBC Computer Science Department

Undergraduate Teaching Assistant | *CPSC 320: Intermediate Algorithm Design and Analysis*

Vancouver, BC

- Delivered tutorials on data structure & algorithm design (graph theory, DP, greedy) to **100+** students, received **90%+** positive feedback through improvement in problem solving skills using effective communication skills

Optum (United Health Group)

Infra & DevOps Intern — .NET, C#, GCP, Bash, Jenkins, Git

September 2024 – May 2025

Richmond, BC

- Improved build-access latency by **50%** through automating NuGet (.nupkg) publishing pipeline to JFrog, featuring regex-driven validation, automated error recovery, and modular Bash/Jenkins scripts reusable across projects
- Engineered .NET installer (C#, WiX, NuGet) for a Q1 2025 launch, automating dependency harvesting and testing on GCP compute engines, increasing deployment reliability and reducing configuration drifts by **90%**
- Packaged scripts/data into NuGet and deployed on GCP Compute Engines using native YAML/JSON configs, accelerating QA test cycles by **50%** while ensuring **HIPAA-compliant deployments**

PROJECTS

UBC Sections | TypeScript, React, Mocha, Express.js, REST API, Jest

August 2025

- Built data analytics platform with EBNF-based query engine processing optimized for **50K+** records on UBC's courses and sections; achieved **99.3%** test success through black-box and UI testing

PlantWhisperer | Python (FastAPI, openCV, Taipy), MongoDB (NoSQL), OpenAI API

January 2024

- Won nwHacks 2024 with a RAG app that improved plant health tracking while reducing latency by **30%**

Zoo Dashboard | PHP, Oracle SQL

August 2023

- Built data warehouse dashboard with **CRUD** support, enforced BCNF normalization, reducing anomalies by **50%**

Easy Banking | Java, Swing, JUnit, SDLC

April 2022

- Banking App built with MVC & Observer design patterns and JSON persistence, 100% JUnit coverage, enabling reliability and easy debugging