Apram Ahuja

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EDUCATION

University of British Columbia — Vancouver, BC
Bachelor of Computer Science with Minor in Data Science; (4.0/4.33) — *September 2021 - present*

- **Awards** Dean's Honor List recognition (2022W, 2023W)
- **Courses** Software Engineering, Operating Systems, Machine Learning, Data Structures & Algorithm Design

TECHNICAL SKILLS

Languages :	Python, Java, C/C++, C#, JavaScript/TypeScript, PHP, SQL, HTML/CSS
Frameworks :	React, Next.js, .NET, OpenGL, PyTorch, pandas, Spark, JUnit, Jest, Selenium
Tools :	Git, Bash, Jenkins, Linux, CMake, GDB, Docker, Assembly, Tableau
Databases :	Amazon Web Services (AWS), GCP, Azure, NoSQL, PostgreSQL, Oracle SQL

WORK EXPERIENCE

Emerging Media Lab — May 2025 – Present
Student Software Developer — *Vancouver, BC*

- Developed an educational game on **Unreal Engine & C++**, applying gameplay-driven learning principles
- Built **20+** UI screens and **50+** Blueprint flows through agile prototyping, iterating weekly based on PI feedback
- Set up **Perforce** version control for **100+** assets, enabling seamless collaboration & zero conflicts across sprints

Optum - UnitedHealth Group — September 2024 – May 2025
Infrastructure & DevOps Engineer Intern — *Richmond, BC*

- Automated resolution of deployment errors for **6000+** artifacts using Bash Script, JFrogCLI and Jenkins, streamlining artifact organization and accelerating developer access to latest builds
- Engineered a **.NET-based installer** for a critical Q1 2025 product launch, aligning requirements across engineering, QA, and product teams through cross-functional communication to ensure seamless deployment readiness
- Packaged scripts and data into **NuGet (nupkg)** format and configured compute engines on **GCP**, enabling secure, modular deployment and accelerating QA testing cycles by **50%** through simplified CI/CD integration
- Migrated **50+** repositories from TFS to GitLab by designing GitOps-based deployment pipelines using **AgroCD, NuGet, and PowerShell**; revamped JIRA Kanban boards to align workflows and enhance team productivity

UBC Computer Science Department — January 2025 – Present
Undergraduate Teaching Assistant | CPSC 320: Intermediate Algorithm Design and Analysis — *Vancouver, BC*

- Delivered weekly tutorials, office hours for **200+** students clarifying complex algorithmic topics such as graph theory, dynamic programming, greedy algorithms, divide & conquer through **problem-solving, clear communication**

UBC Faculty of Forestry — May 2025 – July 2025
Undergraduate Academic Assistant | FRST 505C: Application in Data Science in Forest Resources — *Vancouver, BC*

- Authored **5+ interactive tutorials** under Dr. Suborna Ahmed on data exploration, transformation, and predictive modeling using **Python (GeoPandas, Rasterio)**, applying machine learning concepts to real world GIS datasets

PROJECTS

⌂ Ecowander (AWS x CIC Hackathon Finalists) | TypeScript, Flask, AWS EC2 — October 2024
- Created full-stack itinerary generator, tailoring travel plans to user preferences using **AWS Bedrock**
- Deployed via **AWS EC2 & Lambda** for 100% uptime; used **Llama3** with few-shot to generate **50+** travel plans

⌂ Plant Whisperer (nwHacks MLH Winner) | Python, MongoDB, FastAPI — January 2024
- Developed RAG app on Taipy, MongoDB to improve plant health using **computer vision & OpenAI API**
- Reduced API latency by **30%** using FastAPI for async OpenAI and PlantID API calls resulting in quicker response

⌂ Zoo Management System | PHP, Oracle SQL — July 2023
- Built an end-to-end using PHP, Oracle SQL **data warehouse dashboard** allowing users full CRUD functionality
- Reduced data anomalies by **50%** through schema refactoring & **BCNF** normalization of relational database design

⌂ Online Banking Application | Java, JUnit, Swing — May 2022
- Designed **Java** app using **MVC and observer pattern** to implement core features including balance tracking
- Achieved **100%** unit test coverage using **JUnit**, enabling seamless debugging, feature reliability across user stories
- Built a responsive GUI in **Swing** and added **JSON-based data persistence** through modularized refactoring