ANSH RASTOGI

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EDUCATION

University of British Columbia — 2026

- **Bachelor of Arts in Computer Science**
- **Minor in Data Science**

SKILLS & INTERESTS

- **Python**
- **SQL**
- **Tableau**
- **Java**
- **Java Script**
- **C++**
- **R**
- **HTML**
- **Bootstrap**
- **Markdown**
- **Next.Js**
- **TypeScript**
- **TailwindCSS**
- **Docker**
- **Git**

- **Analytical Thinking**
- **Problem-Solving**
- **Effective Communication**
- **Team Collaboration**
- **Adaptability**
- **Time Management**
- **Leadership**
- **Critical Thinking**
- **Data-Driven Decision Making**
- **Creative Thinking**
- **Project Management**
- **Public Speaking**
- **Cross-Cultural Communication**
- **Attention to Detail**

WORK EXPERIENCE

Chapters International — 2020-2021

Data Analyst Intern

- Collected and analyzed data from schools worldwide to assess participation in educational workshops, identifying trends and areas for improvement.
- Utilized Excel for data cleaning, organizing, and visualization, leveraging pivot tables, VLOOKUP, and advanced formulas to extract key insights.
- Created automated reports and dashboards in Excel to track participation metrics, improving data accessibility for decision-making.
- Used data-driven insights to optimize teacher training programs, ensuring more effective content delivery and engagement.
- Conducted outreach to expand the company's network of partner schools, leading to increased participation in educational initiatives and improved collaboration opportunities.

Phillip Capital India — 2024-2025

Software Development Intern

- Developed sentiment analysis tools for the Phillip9 Application to evaluate and visualize financial news sentiment, providing actionable insights for traders.
- Created Python scripts leveraging TextBlob and VADER for sentiment scoring, incorporating dynamic input parameters and enhanced filtering mechanisms to generate customized sentiment reports.
- Integrated data collection using both NewsAPI and RSS feeds for comprehensive news coverage, improving the accuracy and relevance of sentiment analysis.
- Employed pandas for efficient data processing, structuring, and visualization of collected news data.
- Designed a front-end interface and implemented server-side logic using Flask to build an interactive web application for real-time sentiment computation.
- Automated environment setup and data handling scripts to streamline workflows and ensure scalable sentiment analysis operations.

Profectus Capital India — 2025

Data Analyst Intern

- Upgraded and optimized multiple AWS Lambda functions by migrating codebases to the latest Python version, updating dependencies, and refactoring integration with shared Layers, ensuring compatibility and improved execution performance.
- Collaborated with the engineering team to test and validate Lambda updates in production, troubleshooting dependency issues and reducing runtime errors.
- Designed and implemented SQL scripts to automate database updates, recording whether users requested customer CIBIL report downloads with a simple "Yes/No" flag, improving the accuracy of compliance reporting.
- Enhanced data integrity by validating logic across customer transactions and optimizing query performance, reducing manual intervention and streamlining reporting.
- Strengthened technical skills in AWS Lambda, Python (3.13), SQL, dependency management, and debugging, while gaining hands-on experience with financial data operations in a real-world environment.

PROJECTS

F1 Intelligence Hub: Full-Stack ML Engineer — 2026

Personal Project

- **Architected and delivered a production-grade Formula 1 analytics hub (FastAPI + Next.js) integrating real-time data pipelines, ML predictions, and interactive visualizations for race strategy insights.**
- **Designed a scalable data layer (PostgreSQL + pgvector, 18-table schema) with Celery + Redis pub/sub and WebSocket streaming to provide real-time updates to concurrent users.**
- **Built a 1,400+ feature engineering and training pipeline; deployed 4 XGBoost/LightGBM models achieving** R^2 0.757 **for lap-time forecasting and** ROC-AUC 0.741 **for overtake probability, served via** <1s **APIs.**
- **Implemented reproducible MLOps workflows (Docker Compose, GitHub Actions, MinIO model registry, strict typing + Pydantic validation) to improve reliability, versioning, and deployment consistency.**

Mining Digital Work Artifacts — Portfolio/Resume Generator | COSC 499 — 2025

University of British Columbia

- Collaborated in a team of 6 to build a cross-platform (Windows/macOS) desktop app that mines students' local digital work artifacts to generate portfolios/resumes and highlight contribution, skills growth, and productivity trends over time.
- Engineered a Python backend using FastAPI + SQLAlchemy + SQLite (local encrypted storage), implementing robust parsing for Git/codebases (Python/Java/C++), documents (PDF/DOCX), and media to extract metadata, LOC, functions/classes, and per-contributor metrics.
- Integrated Google Gemini Pro for long-context semantic code reviews (architecture, complexity, security, skill maturity), including automated upload/deletion workflows, explicit consent gates, audit logs, and secure deletion receipts to support privacy-first compliance.
- Built an Electron + React (Vite) dashboard with skills timelines, activity heatmaps, top-project showcases, and a one-page resume generator with PDF/HTML export, plus incremental ingest + deduplication and human-in-the-loop curation (re-ranking, role tagging, evidence linking).

Full Stack Developer

UBC Computer Science Project

- **Developed** a responsive ToDo application using Next.js, TailwindCSS, and TypeScript, ensuring an intuitive and seamless user experience.
- **Integrated** Supabase for real-time database operations and user authentication, enabling secure and efficient data management.
- **Optimized** CI/CD workflows with GitHub Actions and deployed the application on Heroku, streamlining the development process and ensuring reliable performance.

Hackathon Project – Scholar Space Finder — 2024

University of British Columbia

- **Collaborated** in a team at a codingclub@SUO hackathon to design and develop a web application using JavaScript, Supabase, and the Google Maps API.
- **Built** Scholar Space, a real-time study space locator that helps students find available tables on campus, enhancing study efficiency.
- **Implemented** live table tracking and an intuitive user interface, making it easier for students to navigate and secure study spots, significantly improving campus study experiences.

Nomad X – AI-driven Travel & Activity Planning App | COSC 341 — 2025

University of British Columbia

- **Developed** "Nomad X," an AI-driven travel and activity planning mobile app using Flutter and Dart with Firebase Authentication and Cloud Firestore backend; collaborated in a team of four to implement personalized activity recommendations (age, interests, location), advanced search filters, detailed activity views, booking/reservation workflows, and user profile management.
- **Enhanced** UX through heuristic evaluation, adding an undo navigation option on the contact-info screen and dynamic visual feedback on payment choices to streamline the booking flow and reduce user errors.

COSC 322 Game of Amazons Project | COSC 322 — 2025

University of British Columbia

- **Collaborated** in a team of five to design and implement an interactive strategy game using Java and JavaFX, architecting core gameplay mechanics, state management, and graphical rendering.
- **Developed** and integrated an AI opponent powered by Monte Carlo Tree Search (MCTS) with heuristic-guided playouts and adaptive simulation depth to optimize move selection in real time.
- **Conducted** iterative playtesting and heuristic evaluation to refine UI/UX, adjusting game difficulty levels, adding intuitive visual feedback and animations to enhance player engagement and minimize user errors.