

Shreya Saxena

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[Personal Portfolio Website](#)

EDUCATION

University of British Columbia (UBC) – 4th year BSc, Computer Science with Co-op. Dean's List.

2021–Present

SOFTWARE SKILLS

Languages/ Frameworks: Python • Java • AIML • R-studio • AWS • Android Studio • Embedded systems • Unity • MySQL • Framework/Libraries • Javascript • React • NLP • Roboflow • Bootstrap • Node.js • OOP • DBMS • Angular • CSS • Linux
Technologies/ tools: Microsoft Azure • Agile Methods • Postgres database • Python Scripting • REST API • Firebase • Data Structures, Algorithms • GitHub • SDLC • Docker • CI/CD • VCS • CLI • Adobe XD • NLP • Powershell • Spline

EXPERIENCE & INTERNSHIP

Software Engineering Intern, *Amazon*

May 2025 – Present

- **Project-1:** HSN code implementation in Tier-1 service
- Collaborated on research and implementation of HSN codes for **Amazon's Tax Engine** by leveraging Amazon's **Tier-1 API** to integrate HSN codes into the **Tier-1 Product Classification Service** utilizing **python** and **AWS services**. This enabled onboarding of new tax jurisdictions projected to drive **\$2B+ in additional revenue**.
- Reduced tax **workflow latency by ~20%** through optimized integration to enhance real-time transaction accuracy and speed. Collaborated closely with global XFT tax, financial systems, business and compliance teams.
- **Project-2:** SQL Self-Service Query Tool for Business Teams
- Designed and developed a self-service SQL query tool utilizing **java**, **react**, **typescript** backed by **Bedrock** and **MySQL databases**, empowering the business department to retrieve and analyze global consumer data.
- Reduced manual reporting effort by 60%, accelerating data-driven business insights and reducing turnaround time for ad hoc data requests by eliminating engineering dependencies.

Software Engineering Intern, *Ericsson*

Sep 2024 – Apr 2025

- Collaborated with XFT teams across five countries to test a **Gen AI coding assistant** aiming to help increase development efficiency by 80%. The tool utilised **Mistral LLM** and Retrieval Augmented system (**RAG**). Leveraging **ML** methods the tool generates templates, provides intelligent insights and dynamic code reviews.
- Ensuring integration and **optimization** of 5G features by leveraging **Test-Driven Development(TDD)** principles. Collaborating with global teams to sync on testing strategies, improve frameworks.

Undergraduate Software Development Research Assistant, *Rogers Communications, UBC*

May 2024 – Aug 2024

- Collaborated in a team of 10+ to develop an AI-driven wildfire risk prediction model on **Microsoft Azure**, leveraging **IoT** and **satellite remote sensing data**. Worked on enhancing system capabilities for **real-time analytics**, focused on environmental variables critical for wildfire risk management.
- Engineered **three user-friendly web interfaces** to display live wildfire risk data and predictive analytics along, worked on backend development (**DBMS**), **optimizing data integration** for enhanced AI model performance.

President and Founder, *Artificial Intelligence Club UBC*

Sep 2023 – Apr 2025

- Founded the Artificial Intelligence Club with over 300+ members and spearheaded a team of 5+ developers, built the club software project-AI Chatbot using **Java** and **AIML** along with conducting workshops on programming.
- Conducted hackathons, Informative sessions on **version control**, software engineering and AI in collaboration with industry experts from **Microsoft, Google and Amazon**.

Technical Intern, *Xebia*

Jun 2022– Aug 2022

- Constructed a Carbon Emission Calculator collaborating with a team of 5+ developers, built a robust backend with **Postgres database**, implemented **task automation** to process battery reports using **Python scripting** and JSON.
- Created the frontend using **CSS**, **Javascript** and **Bootstrap**, focused on presenting our findings to the company in sprints implementing **Agile methodologies** and following the **SDLC**.

SELECTED PROJECTS ([Personal Portfolio Website](#))

ML Food waste management recognition app | (Machine Learning, Roboflow, Yolo v8, Flask, Python, MySQL)

[Link](#)

- Collaborated in a team of 5+ to create an **image detection/analysis** software for food items using **CUDA**, **Roboflow**, **Yolo v8** with 80% accuracy for item recognition in real time using **ML** and **CI**.
- Built the backend using **Python**, **structured SQLite database**, **automated unit testing** for inventory management with an integrated **REST API** for data manipulation, the frontend using **CSS**, **Javascript** with **flask** for routing.

Full stack carbon emission calculator |(APIs, Django, Postgres database, Docker)

[Link](#)

- Collaborated with a team of 7+ to create the backend through **API development**, **Django** and utilised **task automation** to gather battery report data to calculate CO2 emissions from machines using **Python scripting**.
- Maintained the application by containerizing our user-friendly web interface using **docker** and stored data in **Postgres**. Performed **data cleansing**, **data quality checks** for efficient data retrieval.