

Shreya Saxena

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EDUCATION

University of British Columbia (UBC) – 4th year Bachelor of Science, **Computer Science with Co-op**.

2021-Present

SOFTWARE SKILLS

Languages/ Frameworks: Python • Java • AIML • R-studio • Django • 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, *Ericsson*

Sep 2024 – Present

- Collaborated with global teams to implement an **AI coding assistant** using **LLMs and NLP**, enhancing code templating and dynamic code reviews, resulting in an 80% improvement in development efficiency.
- Engineered solutions using Citrix, Linux, and SonarQube for **intelligent log classification** with **ML techniques** like Spectral Clustering, Word2Vec, and LDA. Reduced troubleshooting time. Ensured seamless integration/**optimization** of 5G features using Jenkins, Git, and Gerrit in a Java, React, and Angular.

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

May 2024 – August 2024

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

President and Founder, *Artificial Intelligence Club UBCO*

Sep 2023 – Present

- 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.

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

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** and implemented a **structured SQLite database**, **automated unit testing** for inventory management with an integrated **REST API** for data manipulation, constructed the frontend using **CSS**, **Javascript** while integrating **Flask** to verify the data and connect the frontend and backend.

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**.

100 years of aircraft data analysis |(Python, Python libraries, data analysis, Databases, Tableau, research)

[Link](#)

- Performed detailed data analysis of aircraft incidents using **python** spanning 100 years, from 1920 to 2020 by incorporating **python libraries** like **BeautifulSoup**, **pandas**, **matplotlib**, **seaborn**, **numpy**, and **plotly**.
- Analysis performed through research on relationships between aircraft types, incident timing, and operator location details focused on implementing **data visualization**(**Tableau**) using **interactive visual libraries**.

Chatbot software development|(NLP, AIML, Java, Version control, Alicebot frameworks)

[Link](#)

- Spearheaded a team of 5+ executives for the development of an AI chatbot utilizing **AIML**, **NLP** and **Java**.
- Maintained **Version control** while **connecting** the **Alicebot framework** to work with variations of AIML(XML) files while successfully executing the steps in **SDLC** and documenting the development process on **GitHub** to create a guidebook for students.