

TUMI FABIYI

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SKILLS

Languages and Libraries: Python, Java, C, MATLAB, SQL, Typescript, JS, Numpy, Pandas, Pytorch, Sci-Kit Learn, Matplotlib, JUnit

Tools and Frameworks: ROS, Git, Linux, Kubernetes, Azure Cloud, AWS, Angular, Node.JS, PowerBI, Fusion360, KiCAD

Electrical and Mechanical: PCB and Analog/Digital Design, Soldering, Rapid Prototyping + Fabrication, Signal Analysis

EXPERIENCE

InSporos (Ag-Tech Startup)

Jan. 2025 – April 2025

Research and Development Co-op

Calgary, AB

- Improved seed scanner performance by developing **computer vision** features and implementing critical fixes in a **Python** codebase, streamlining operations and increasing **model accuracy**.
- Reduced system vibrations by modeling structural changes in **CAD** and assembling a custom solution using precision **machine shop tools**.
- Led development of a standardized **greenhouse imaging system** to improve ML inputs; designed and 3D-printed parts (**Fusion360**), created schematics (**KiCAD**), integrated **sensors/LEDs**, and programmed control logic in **C++**.

Amazon

Jun. 2024 – Sept. 2024

Software Development Engineer Intern

Vancouver, BC

- Saved an estimated **800 hours** of manual overhead per year by improving internal product validation processes on the Gift Cards Tech Team through **Java**, and **Python backend development**.
- Spearheaded project addressing an incident causing **\$11 Million** in CP losses and affecting **300,000 customers**, applying principles of software design, extensive unit and regression testing and Agile project management.
- Performed code reviews, authored software documentation, and conducted stakeholder presentations and consultations, to ensure high code quality and successfully launch project to production.

EHS Analytics (Health-tech Startup)

Jun. 2023 – Sept. 2023

Data Science and Software Engineering Intern

Calgary, AB

- Processed and cleaned text-based reports using **Pandas** and **NumPy** to prepare high-quality input for **AI model training**.
- Built interactive dashboards and demos with **Power BI**, **Pandas**, and **SQL**; anonymized data using **Scrubadub** to support client presentations and strategic decision-making.
- Refactored and optimized **AngularJS** codebase, enhancing scalability through **TypeScript backend development** and iterative feedback cycles.

LEADERSHIP AND INVOLVEMENT

Women in Data Science

Sep 2023 – Present

Director of External Outreach

Vancouver, BC

- Led outreach initiatives to **increase engagement and participation by 15%** in Women in Data Science events, fostering a more inclusive community through strategic partnerships and targeted campaigns.
- Orchestrated **8+ high-scale events** including technical panels, case competitions, hackathons and a technical career fair in collaboration with industry professionals, empowering over **1000 women** in UBC's tech community to advance their careers.

FIRST Robotics

Sept. 2021 – June 2023

Team President

Calgary, AB

- Led a **team of 30 students** in the design and creation of 2 semi-autonomous robots as president and head of the build team, developing skills in CAD design, mechanical assembly, **ROS** and **OpenCV**
- Founded an all-girls team and managed **four sub-teams** to build, test, and continuously improve the robot's capabilities, resulting in a nearly **100% increase** in club membership through strong communication and project management skills.

EDUCATION

University of British Columbia

Vancouver, BC

Bachelors of Applied Science, Engineering Physics, Software and Mechatronics Spec.

Expected Graduation Date: May 2028

Awards and Recognitions: Loran Scholar, Amazon Future Engineer, Ted Rogers Future Leader Award, Onyx Scholar

Clubs and Affiliations: Ethos Lab, ColorStack, UBC Women in Data Science, Girls Who Code, NSBE, UBC AAI, Engineering Undergraduate Society,