Lauren Yip

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Education

Simon Fraser University Burnaby, BC

Bachelor of Science in Computer Science *Expected graduation: Spring 2026*

Relevant courses: Data Structures and Programming, Intro to Software Engineering, Intro to Programming I & II, Discrete Math I & II, Statistics, UX/UI design, Computational Data Science. Introduction to Business Fundamentals

SFU Clubs and Affiliations: WICS Technical Coordinator 2024-25, Blueprint AI Engineer 2024, Club Volleyball 2021-22

Work Experience

IT Cybersecurity Infrastructure and Platforms Intern Sept 2024 – Dec 2024

BC Hydro *Vancouver, BC*

- Ideated and developed an **AI Assistant** based on Leon AI for cybersecurity infrastructure, utilizing SQL and Python for platform queries and webscraping; designed and coded the UI with Figma and React, to **boost team communication by 50%** and ensure accurate, real-time data.
- Identified feature requirements via interviews, integrating Splunk and Cisco Umbrella to **enhance efficient security operations**, leading to a **40% improvement in threat detection** and access to critical insights.

Machine Learning Fellow - Accelerator Award WINNER May 2024 – Aug 2024

AI4GOOD Lab *Toronto, ON*

- Studied **Machine Learning** and **data science** algorithms and techniques including **neural networks, generative AI,** and **deep learning**. Project coordination, market research, and design planning including ethical considerations and logistics.
- Developing a fullstack AI project (Brig.AI, listed below) with a multidisciplinary team and presenting it to a panel of judges, leading ML researchers, and 200+ attendees. Writing and publishing a blog post for AI4GOOD, promoting our project and cause to future participants.

Undergraduate Research Assistant Jun 2023 – Jun 2024

ROSIE Labs, SFU *Burnaby, BC*

- **Co-authored** publication on non-verbal Human-Robot interactions by identifying and analyzing 1099 interactions between participants and virtual agents, **producing** an informational video and website using **React**
- Attended meetings and participated in discussions, introducing new ideas, providing input and observations on the study, and editing the paper with **LateX** to improve clarity, readability, and formatting

Projects

Brig.AI | *Python, Flask, React.js* Jun 2024

- A platform where women can become empowered to self-advocate for proper reproductive healthcare. Used machine learning models **Logistic Regression, Adaboost, and Kmeans clustering.** Link

Emergency Response BC | *JS, HTML, CSS, Python, Flask* nwHacks 2024

- A website that allows you to input your location and view the nearest hospitals and their ER wait times. Worked with **webscraping, RESTful APIs,** and the Haversine Formula Link

Cassava Classifier | *Python* May 2024

- Developed a **pipelined machine learning** solution for Cassava disease classification by doing data exploration, model selection, and training with CNNs. Predicted disease type with 79% accuracy Link

Skills

Programming Languages, Frameworks, and Libraries: Python, C/C++, R, Java, MatLab, SQL, TypeScript, React, Flask, Splunk SPL, Vue.js, JUnit, Pandas, NumPy, Matplotlib, Spark, TensorFlow, ScikitLearn
Technologies: Git, RESTful APIs, Node.js, JIRA, Docker
Design Tools: Figma, Adobe Photoshop, Adobe Illustrate, Adobe Premiere, Blender
Personal Interests: Oil painting, reading, writing, piano, guitar, beach volleyball, swimming, hiking, snowboarding

References

Dr. Angelica Lim Assistant Professor at SFU, Lab Supervisor (Rosie Lab)
angelica@sfu.ca

Mike Kassam IT Cybersecurity Infrastructure Manager, Supervisor (BC Hydro)
mike.kassam@bchydro.com