

Ananya Jain

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EDUCATION

University of Toronto, St. George

Toronto, ON

Bachelor of Science in Computer Science, Focus in Artificial Intelligence

Sep. 2021 – April 2025

- Recipient of International Scholar award (\$100,000), Dean's List Scholar 2021-22, New College In-Course Scholarship, Enrolled in Arts and Science Internship Program
- Relevant Coursework - Introduction to Machine Learning, Neural Networks and Deep Learning Introduction to Databases, Algorithm Design, Analysis & Complexity, Operating Systems, Introduction to Software Engineering

EXPERIENCE

Incoming Software Engineering Intern

September 2024

Uber

San Francisco, USA

Web App Developer, Knowledge Graph Engineer | *SPARQL, Python, JavaScript* Sep 2023 – Present

Urban Data Center, UofT

Toronto, ON

- Developing web application using JavaScript-based front-end and Python-based backend libraries for the digital twin city project
- Using NLP to allow SPARQL queries to get responses from knowledge graphs
- Managing database management systems, with a focus on knowledge graphs

Software Engineering Intern | *Kotlin, XML, com.auth0 jwks, FasterXML* May 2023 – August 2023

OpenG2P

Remote

- Led the development of SmartScanner Application, designed an efficient **caching mechanism** that empowers the app to perform offline verification of scanned vouchers
- Successfully implement an **authentication framework** for JSON Web Tokens using RSA public keys, leading to a **30%** increase in overall app usability

Quantum Computing Undergraduate Researcher | *Python, D-Wave*

May 2023 – August 2023

Matter Lab, University of Toronto

Toronto, ON

- Researcher for the “Quantum Optimization for Planning Domain Definition Language” Project
- Worked with robotic AI planning tasks, ran simulations of Quadratic Unconstrained Binary Optimization (QUBO) methodologies adeptly to produce and generate **Quadratic Binary Models**
- Leveraged D-Wave Ocean Software's dimod package to effectively solve Binary Quadratic Models, resulting in the generation of optimal solutions with minimum energy
- Currently in the process of writing the research paper to be presented at several conferences

PROJECTS AND LEADERSHIP

President | *Women in Computer Science (WiCS) Club*

April 2023 - Present

- Spearheaded a vibrant community of undergraduate students at UofT dedicated to empowering and providing support for self-identifying women pursuing technical careers
- Coordinated exclusive on-campus networking events in partnership with industry-leading tech companies such as Google and Figma, providing students with valuable opportunities to connect and explore potential career paths

Ryde | *Java, Git*

November 2022

- Collaboratively developed a comprehensive full-stack car dealership web application with a team of five
- Enhanced the Display Listings feature by crafting a robust filter system, enabling the accurate presentation of listings for users

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, React, Git, SPARQL, C, SQL, JavaScript, HTML/CSS, R

Libraries: NumPy, Pandas, matplotlib, scikit-learn, PyTorch

Awards: Received scholarship to attend Grace Hopper Celebration 2022 by AnitaB.org, world's largest gathering of women in computing

Certifications & Training: Quantum Programming Core - D-wave, LearnAI - UofTAI, Introduction to Quantum Computing - SciNet