

PRIYADARSHINI SAHA

COMPUTER SCIENCE | UNIVERSITY OF WATERLOO

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TECHNICAL SKILLS

Languages: Java, Python, C/C++, PHP, JavaScript/TypeScript, HTML, CSS, R, Visual Basic, Bash Scripting

Frameworks: Angular, Spring Boot

Databases & Servers: MySQL, XAMPP, MS SQL Server

Tools & Technologies: Git, GitHub/GitLab, Markdown, Eclipse, Visual Studio Code, Vim

Design & Editing: Figma, Canva

EDUCATION

University of Waterloo

September 2020 – April 2025 | Waterloo, Ontario

- **Bachelor of Computer Science, Co-op**
- Faculty of Mathematics President's Distinction Scholarship Recipient for 95%+
- *Relevant Courses:* Object-Oriented Software Development (**C++**), Elementary Algorithm Design & Data Abstraction (**C**), Logic & Computation

ACADEMIC PROGRAMS

Zero Experience Entrepreneurship Program

September - December 2020

Analyzed data management problems in AI & ML for potential solutions with a 4-member team to draft a Quantum Valley Pitch Application.

Quantum Cryptography School for Young Students (QCSYS)

August 2019

Experimented with cutting-edge quantum technology and gained profound knowledge in quantum key distribution, quantum algorithms, and quantum circuits by engaging in discussions with educators and directors.

AWARDS & CERTIFICATIONS

Beep: Smart Alarm | 1st Place in Global Startup Entrepreneurship Hackathon

November 2018

- Achieved 1st place with \$5000 cash prize for strategizing financial and marketing plan and presenting product pitch.
- Designed prototype with Figma and built software with REST API standards.

PROFESSIONAL EXPERIENCE

Software Engineer | Larsen & Toubro Infotech Limited

May – August 2021

- Implemented **localization** and **internationalization** features in French for **Unitrax**, a SaaS based solution for wealth and asset management, to increase sales in the Quebec finance industry
- Architected a scalable software solution design for multi-language internationalization support with a global team by analyzing business requirements and current platform architecture
- Programmed front-end localization features in **Angular** using **HTML**, **SCSS**, **TypeScript** & **NGX Translate APIs** for **120+** application screens
- Developed back-end internationalization API functionalities using **Java**, **Python** and **Spring Boot** and automated translation fetching with **SQL** for **60+** screens
- Performed unit testing, integration testing, and system testing to resolve production defects in an **agile & scrum** development environment
- Documented front and back-end localization and internationalization process with complete business overviews, implementation code, and future scalability

LEADERSHIP EXPERIENCE

Chair | Women in Computer Science (WiCS)

January 2022 – Present

- Lead all meetings, publicly represented WiCS, and liaised between affiliated organizations to plan activities that enhance experiences for women in tech
- Collaboratively strategized financial plans to secure funding, and delegated tasks to an 8-member team to facilitate execution of events and activities
- Organized events such as Speed Friending, Roasting First-Year Resumes, Co-op Panel, and De-stress & Socials events with the WiCS team to help undergraduate students network and prepare for successful internships.

Director of Publicity | Women in Computer Science (WiCS)

September – December 2021

- Masterminded strategies to promote WiCS events through social media platforms and collaborated with affiliated organizations to boost publicity
- Designed and created promotional material, posters, and social media stories using **Canva** to accelerate event-marketing and increase engagement by 40%

PROJECTS

Chess Engine

December 2021

- Developed an interactive Chess game with customizable options and multiple computer-levels in **C++** with a 2-member team using **object-oriented principles** and **MVC**, **strategy**, and **observer** design patterns
- Performed black-box, white-box, and unit testing to resolve defects and constructed separate compilations to build highly modular classes

AI Chatbot

August 2021

- Developed an AI Chatbot for iLantus using **Python Pytorch** and **NLTK** by using neural networks and NLP techniques and with database connectivity in **MySQL** to store conversations for back-propagation AI learning
- Designed and implemented the front-end UI in **Figma**, **HTML**, **CSS**, and **JavaScript**

Bridge+ | HackWithUS @ TechNova 2021

August 2021

- Bridge+ is a web application for female and non-binary professionals in the tech field to meet, chat, and network with each other
- Implemented login authentication and back-end using **PHP** and **MySQL** database connectivity, hosted through **Apache XAMPP** Server and **phpMyAdmin**
- Architected the front-end UI with **Figma**, **HTML**, **CSS** and **JavaScript**