

JOHN DOE

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EDUCATION

University of Toronto

Bachelor of Applied Science in Computer Engineering

Toronto, ON

Sep 2022 - May 2026 (Expected)

SKILLS

Programming Languages: C/C++, Java, Python, CSS/HTML, JavaScript, Kotlin, SQL
Frameworks: Spring Boot, Flask, Node.js, Bootstrap, Qt
Technical Tools: Linux, Git, Bash, Azure, GCP, AWS, MySQL, MongoDB, Kubernetes, Docker, GitLab
Relevant Coursework: Course 1, Course 2, Course 3

WORK EXPERIENCE

Company 1

Position 1

Toronto, ON

Sep 2024 - Present

- Developing an internal software tool using Java **Spring Boot** for research data collection and analysis, integrating AI models for enhanced insights.

Company 2

Position 2

Toronto, ON

May 2024 - August 2024

- Developed a web application using Java **Spring Boot** framework to automatically collect and analyze competitors' data online, utilizing **MySQL** for data storage and following the **MVC** Design Pattern.
- Built an open-source Java library for **News API** to streamline the data collection process.
- Leveraged **Gemini AI** API to summarize parsed texts with **multithreading**, reducing both report size and processing time by **50%**, using **iText** and **AWS Polly** to generate PDF reports with audio.
- Dockerized** the application for testing with **JUnit**, automated the process with **Python scripts**, and designed **REST APIs** to provide external access to the application's core microservices.

Company 3

Position 3

Toronto, ON

May 2023 - August 2023

- Created a website using Python **Flask** and **MongoDB** to record all the microchips in the lab and hosted it on Microsoft **Azure** after containerizing it using **Docker** for testing.
- Improved the Bluetooth data transfer rate between computers and Arduino microcontrollers from **1.25** KB/s to **8** KB/s, a **640%** increase through optimizations of embedded C++ algorithms.
- Co-authored a paper on CNN **Deep Learning** and prosthetic hands for IEEE BioCAS 2023 conference.

SELECTED PROJECTS

Project 1 [\[GitLab\]](#) - Mobile App Development

July 2024

- Developed an Android AI Chat App in Kotlin with **GitLab CI/CD** pipeline and **GCP Kubernetes**.
- Integrated **IBM Cloud** services so users can chat with AI models available on IBM **Watsonx** platform.

Project 2 [\[GitHub\]](#) - Full-Stack Software Development

January 2024 - April 2024

- Led a team of 3 to develop a mapping application in C++ on **Linux** using **GTK** for user interface design, **OSM API** for geographic data, **SQLite** for data storage, and **Git** for collaboration.
- Leveraged **Agile methodologies** for effective communication and project management.
- Designed an efficient solution for a variant of the Travelling Salesman Problem using **Dijkstra's algorithm** with **parallel computing**, which ranked **#9** among 91 team submissions.

Project 3 [\[GitHub\]](#) - Object-oriented Software Design

May 2023

- Based on my APS105(Computer Fundamentals) project reversi.c which ranked **#6** among 430 students after run-time optimization (decision made within **1** sec).
- Re-programmed in C++ with a GUI made in **Qt** that supports both human-human and human-AI matches using **Minimax**, **AB-pruning**, and **Heuristic Evaluation** with a depth up to 6.

AWARDS AND HONORS

- Award 1:** First Place
- Award 2:** 7000 CAD
- Award 3:** Bronze Award