

# Taha Hashim

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## EDUCATION

### University of Toronto

Expected 2026

*Honours in Bachelors of Science (H.Bsc.), Computer Science and Mathematics + PEY Co-op*

- Cumulative GPA: **3.79/4.00**
- Dean's List Scholar (2023 & 2024)
- University of Toronto **\$4000** Entrance Scholarship (Sep. 2022)

**Relevant Coursework:** Data Structures & Algorithms, Software Tools & Systems Programming, Software Design & Development in Java, Object-Oriented Programming, Python Programming, Theory of Computation, Probability and Statistical Modeling, Linear Algebra, Calculus I, Calculus II, Calculus of Several Variables, Mathematical Proofs

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C#, JavaScript, TypeScript, SQL, Bash/Shell Scripting, HTML/CSS

**Frameworks:** React, Node.js, Express, ASP.NET, JavaFX, JUnit, Robot Framework, Selenium

**Technologies:** MongoDB, PostgreSQL, Docker, Kubernetes, OpenAI API, REST API

**Developer Tools:** Git, Unix/Linux, VS Code, Visual Studio, PyCharm, IntelliJ, GitLab CI/CD

## EXPERIENCE

### Software Automation Engineer

May. 2024 – Aug. 2024

*Ericsson*

*Toronto, Ontario*

- Developed an automation framework using **Python**, **Robot Framework**, and **Selenium**, saving **400+ hours**
- Led the containerization of the framework into a **Docker** image, which integrated smoothly into the **GitLab CI/CD** pipeline, achieving a **50%** reduction in production bugs by executing automation scripts asynchronously
- Implemented the framework in a cloud-native environment with **Kubernetes**, enhancing scalability and efficiency

### Software Programming Instructor

May. 2024 – Aug. 2024

*Ultimate Coders*

*Toronto, Ontario*

- Taught **Python**, **HTML**, **CSS**, and **C#** weekly to **20+** students, hosted 2 Hackathons, marked course materials

### Software Engineer Intern

May. 2023 – Aug. 2023

*Akhny Solutions Inc.*

*Remote*

- Engineered a comprehensive online grocery store full-stack web application, providing administrators with versatile management capabilities, while simultaneously offering customers an array of user-friendly features
- Leveraged **HTML**, **CSS**, and **JavaScript** for a responsive and dynamic frontend. Utilized **ASP.Net**, **C#**, and **SQL Server** to manage the backend, ensuring efficient data management and implementing dynamic features
- Integrated **15+** features to improve application functionality and achieved a **30%** reduction in load times

## PROJECTS

### Escape Room Game | *Java, JavaFX, JUnit, Git*

- Led the collaborative creation of an inclusive **Java** escape room game with unique themes, intricate puzzles, and storytelling, prioritizing accessibility features such as audio descriptions, visual clues, and motor control
- Utilized **JavaFX** for a responsive UI, enabling users to navigate and engage with interactive escape room elements
- Collaborated in a team of four making use of the **Agile Development Cycle**, **Daily Scrums**, and **Git Flow**
- Implemented the **command**, **singleton**, **strategy**, and **MVC** design patterns for an extensible software design
- Executed comprehensive unit tests using the **JUnit** Framework, reducing debugging time by **60%**

### Convo-AI | *MongoDB, Express, React, Node.js, TypeScript, OpenAI API, Git*

- Developed a full-stack ChatGPT clone using the **MERN stack**, integrating **OpenAI** with **Node** and **Express**
- Implemented a secure user authentication and authorization system with **JWT** tokens and **HTTP only cookies**
- Designed and implemented a **REST API** with **Node.js** and **Express** for efficient data handling
- Built a modern, responsive **React** application with **Vite**, featuring a friendly chat UI using **Material UI**
- Achieved **100%** test coverage with unit and integration tests, ensuring the reliability of all code modules