

# Ayaan Yousaf

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## TECHNICAL SKILLS

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**Programming:** Java, Python, C++, C#, React.js, Vue.js, Node.js, Tailwind CSS, JavaScript, HTML/CSS, MongoDB, PostgreSQL

**Tools:** Git, Visual Studio, VS Code, IntelliJ, Linux (Ubuntu), Jupyter Notebook, RESTful APIs, Agile

**Libraries:** scikit-learn, Numpy, pandas, Matplotlib, Maven, JDBC, Jakarta WebSocket, Beautiful Soup

## EDUCATION

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**Bachelor of Science (Honours) Co-op in Computer Science**

**Oshawa, Ontario**

*Ontario Tech University*

*Expected Graduation, May 2027*

- o **GPA:** 3.69/4.30, *President's List for Winter 2023 and Fall 2024*
- o **Related Coursework:** Data Structures, Algorithms, Database Systems, Object-Oriented Programming, Scientific Data Analysis, Software Systems Development, Software Design, Computer Architecture, Web Development

## PROJECT EXPERIENCE

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**BookNest** | Node.js, Vue.js, D3.js, Express, MongoDB, RESTful APIs

*Mar 2025 – Apr 2025*

*Team Member*

- Built a full-stack digital library application using Node.js, Vue.js, Express, and MongoDB.
- Modeled schemas for core entities using Mongoose and automated database seeding with Node.js scripts.
- Integrated frontend Vue.js pages with backend REST APIs to dynamically retrieve book data.
- Implemented advanced search filter functionality and resolved frontend bugs, enhancing usability.

**Tic-Tac-Chat** | Java, HTML, CSS, JavaScript, Jakarta WebSocket, RESTful APIs

*Mar 2024 – Apr 2024*

*Team Member*

- Engineered a real-time chat server with Tic-Tac-Toe integration using REST APIs and web sockets in Java.
- Debugged backend connectivity issues between the server and client, ensuring accurate data rendering.
- Scaled client capacity from 2 to 20 simultaneous users, ensuring low-latency communication.

**ByeSpam** | Java, HTML, CSS, JavaScript, GlassFish, RESTful APIs

*Feb 2024 – Mar 2024*

*Team Member*

- Developed a full stack spam email detector using Java, REST APIs, HTML, CSS, and JavaScript.
- Collaborated with team members to achieve a model with 88% accuracy and 84% precision.
- Optimized algorithms, increasing detection accuracy by 10% and precision by 4%.

## PROFESSIONAL EXPERIENCE

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**RK Studios**

**Toronto, Ontario**

*IT Support Technician*

*Aug 2021 – Aug 2022*

- Set up hardware and software efficiently for wedding photography, allowing for operation on schedule.
- Managed IT systems and software, including Adobe Photoshop and Lightroom.
- Provided technical troubleshooting, resolving issues with Dropbox and Google Drive.
- Effectively communicated solutions to staff and event organizers.

## ACTIVITIES AND CERTIFICATES

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**Computer Science Club – Ontario Tech University**

**Oshawa, Ontario**

*General Member*

*Sept 2023 – Current*

- Participated in a Microsoft-sponsored hackathon event focused on Azure cloud services.

**Employment Readiness Program – Ontario Tech University**

**Oshawa, Ontario**

*Certificate of Participation*

*Completed Apr 2024*

**LinkedIn Learning Certificates**

*Completed Nov 2023*

- Advanced Java: Hands-on with Streams, Lambda Expressions, Collections, Generics and More
- Java Algorithms
- Python Essential Training