Ayaan Yousaf

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TECHNICAL SKILLS

Programming: Java, Python, C++, C, JavaScript, HTML/CSS, SQL (Postgres), Node.js, Vue.js, React.js, Clojure, Assembly
Tools: MS Office, Visual Studio, VS Code, IntelliJ, Linux (Ubuntu), REST APIs, Jupyter Notebooks, Git, Agile
Libraries: scikit-learn, Numpy, pandas, Matplotlib, Maven, JDBC, Jakarta WebSocket, Beautiful Soup

EDUCATION

Bachelor of Science (Honours) Co-op in Computer Science   **Oshawa, Ontario**
Ontario Tech University   *Expected Graduation, May 2026*
- 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

BookNest | Node.js, Vue.js, Express, MongoDB, REST 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, REST 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, REST 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

RK Studios   **Toronto, Ontario**
Information Technology Coordinator   *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

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