Ayaan Yousaf

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C++, C#, HTML, CSS

Frameworks/Libraries: React.js, Vue.js, Tailwind CSS, Node.js, Express, PyTorch, NumPy, pandas, Matplotlib

Tools: Git, VS Code, IntelliJ, Jupyter Notebook, MongoDB, PostgreSQL, Vercel, RESTful APIs, Agile, CI/CD, UML, Claude

EDUCATION

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

Oshawa, Ontario

Ontario Tech University

Expected Graduation, May 2027

- o GPA: 3.69/4.3, President's List for Winter 2023 and Fall 2024
- o Related Coursework: Data Structures, Algorithms, Computer Architecture, Database Systems, Al-Powered Software Engineering, Software Systems Development, Software Design, Web Development, Machine Learning

PROJECTS

DRL Software Testing Framework | Python, Stable-Baselines3, Gymnasium, Selenium

Sept 2025 - Oct 2025

- Engineered a modular Deep Reinforcement Learning framework to automate web app and game testing using agents trained on PPO and A2C algorithms.
- Designed and evaluated 4 custom reward functions for simulating distinct user behaviours during testing.
- Accelerated agent training speeds by 6x through environment parallelization with SubprocVecEnv.
- Achieved 95% reusability by decoupling environment logic, training/evaluation scripts, and YAML configuration.

Portfolio Website | React.js, Three.js, Vite, Tailwind CSS, Vercel

Aug 2025 – Sept 2025

- Built and deployed a responsive portfolio on Vercel, featuring 10+ reusable React components and custom hooks.
- Implemented smooth scroll-triggered animations with Framer Motion, enhancing user experience and interactivity.
- Integrated a dynamic 3D background and interactive Earth model using Three.js.
- Improved accessibility by ensuring compatibility across multiple devices for a consistent user experience.

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

Mar 2025 – Apr 2025

- Developed a full-stack digital library web application using Node.js, Vue.js, Express, and MongoDB.
- Modeled schemas for core entities using Mongoose and automated database seeding with Node.js scripts.
- Connected frontend Vue.js web pages with backend REST APIs to dynamically retrieve book data.
- Debugged UI issues and implemented advanced search filters, ensuring smoother navigation and usability.

WORK EXPERIENCE

RK Studios
North York, Ontario
IT Support Technician
Aug 2021 – Aug 2022

Configured 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 Google Drive and communicating clear solutions to staff.

ACTIVITIES AND CERTIFICATES

Computer Science Club - Ontario Tech University

Oshawa, Ontario

General Member Sept 2023 – Present

• 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

Attended workshops focused on networking, speed interviewing, and conflict resolution.

LinkedIn Learning Certificates

Completed Nov 2023

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