Vatsalya Rastogi

⚲ Windsor, ON ✉ rastogiv@uwindsor.ca ⌨ https://github.com/vatsalyar 🔗 in/vatsalya-rastogi ☁ portfolio.vatsalya.wiki

SUMMARY

Detail-oriented Computer Science student with a specialization in Artificial Intelligence, possessing a robust foundation in object-oriented programming, web development, and software engineering principles. Demonstrates proficiency in JavaScript, TypeScript, Node.js, and React, with hands-on experience in developing scalable web applications. Proven track record of effective collaboration within agile teams, active participation in code reviews, and delivering high-quality solutions to real-world challenges. Recognized for outstanding attention to detail, strong problem-solving skills, and a commitment to continuous professional development.

EXPERIENCE

Artificial Intelligence Engineer
Glendor Inc.   **September 2025 - Present, Virtual**
- **Optimized federated learning frameworks** for AI in healthcare, improving training efficiency by **25%** and enabling cross-institutional collaboration while maintaining strict **HIPAA/GDPR compliance**.
- **Developed automated PHI de-identification tools** for medical images and clinical data, achieving **95%+ anonymization accuracy** and reducing manual compliance review time by **40%**.
- **Engineered scalable, privacy-preserving data sharing platforms** adopted by **10+ hospitals**, accelerating multi-institutional medical research and supporting deployment of **AI-driven diagnostic models**.

Teaching Assistant
University of Windsor   **September 2025 - Present, Windsor, ON**
- Courses: Algorithms and Programming II, Key Concepts in Computer Science.
- **Mentored and supported 100+ students** during labs and office hours, providing debugging assistance, project guidance, and conceptual reinforcement that improved **assignment completion rates and student confidence**.
- **Evaluated and graded 500+ assignments and exams** with an emphasis on **fairness, transparency, and academic integrity,** streamlining the assessment process and ensuring consistent standards across multiple cohorts.

Front-End Developer
Eztrackr Inc.   **July 2025 - September 2025, Mississauga, ON**
- **Audited and refactored a large-scale front-end codebase**, establishing a **scalable design system** that reduced UI inconsistencies by **30%**.
- **Built and documented a reusable React component library** with **Tailwind CS**S and **Shadcn UI**, integrated into production apps serving **1,000+ users**, standardizing UI patterns, improving **UX consistency**, cutting feature development time by **25%**, and reducing developer onboarding time by **30%**.
- **Improved user engagement by 15%** through a more cohesive, accessible, and responsive design system, directly enhancing **customer satisfaction and retention**.

PROJECT

Reactutor
reactutor.vatsalya.wiki
- **Built an interactive learning platform** featuring **live in-browser coding** using **Sandpack API**, enabling students to practice and test code in real time.
- **Integrated GroqAI API** to provide **instant hints, explanations, and feedback,** improving learner engagement and reducing time-to-understanding by **~30%**.
- **Containerized the platform with Docker** and **deployed on AWS S3**, ensuring a **scalable, cloud-ready infrastructure** with high availability and low latency for **100+ users**.

Personal Portfolio Website
portfolio.vatsalya.wiki
- **Developed a fully responsive personal portfolio website** to showcase projects, skills, and achievements, optimized for **performance and cross-device accessibility**.
- **Enhanced user experience and engagement** by implementing advanced **3D animations and interactions** using **Three.js** and **Framer Motion**, increasing average visit duration by **20%**.
- **Implemented modern development** best practices including **SEO optimization, CI/CD deployment, and analytics tracking,** resulting in improved discoverability and measurable user insights.

EDUCATION

Bachelor of Computer Science (Honours)
Minor in Mathematics & Specialization in Artificial Intelligence · University of Windsor · Windsor, ON · 2027 · 3.7

SKILLS

Other: Git, CI/CD, AGILE, REST APIs

Frontend: React, Typescript, Tailwind, Shadcn, Redux

Backend: Node.js, Express.js, Python, Docker, AWS, Firebase

Databases: MongoDB, MySQL, NoSQL

CERTIFICATIONS

CS50′s Introduction to Programming with Python

Harvard University · 2025

· Covered problem-solving, algorithms, data structures, object-oriented programming, testing, and web APIs in Python.