Vatsalya Rastogi

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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.

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 CSS and Shadon 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.

Teaching Assistant

University of Windsor

September 2025 - Present, Windsor, ON

- $\boldsymbol{\cdot}$ 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.

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.

SKILLS

Frontend: React, Typescript, Tailwind, Shadon, Redux

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

Databases: MongoDB, MySQL, NoSQL

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

EDUCATION

Bachelor of Computer Science (Honours)

Minor in Mathematics & Specialization in Artificial Intelligence \cdot University of Windsor \cdot Windsor, ON \cdot 2027 \cdot 3.7

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.