Rikhi Singh

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Waterloo, ON

EDUCATION

- **Conestoga College** — Waterloo, ON
  Computer Programming Diploma; GPA: 3.89 — *2023 – 2025*

- **University of Michigan** — Michigan, MI
  Web Development Certification; GPA: 4.00 (98.1%) — *2021 – 2022*

EXPERIENCE

- **Lead Web Developer** — Remote
  Eptics Inc. — *Jan 2022 - Present*
  - Developed a medical lab experiment creation platform with AI integration, including an admin panel, landing page, and AR mobile app, collaborating with a 4-person team to deliver in 3 months. Led database design using MySQL and implemented the admin panel with Next.js, TypeScript, and OpenAI's Playground.
  - Built a web store platform for farm owners, enabling item listings and sales through a streamlined admin panel, store owner dashboard, and customer interface. Leveraged Next.js, TypeScript, Tailwind CSS, and an AI recommendation engine that provides location-based crop suggestions based on weather trends, boosting user engagement.
  - Engineered a booking platform with frontend and backend in CodeIgniter (PHP), streamlining pickup and delivery orders. Created a companion Flutter app for drivers, featuring real-time route guidance, logging, and pickup confirmations, resulting in smoother operations and enhanced delivery efficiency.

- **Application Developer** — Guelph, ON
  University of Guelph — *Sep 2023 - July 2024*
  - Enhanced user experience by developing new features for web applications using Razor Pages in MVC.NET with C# and JavaScript, improving functionality based on user feedback.
  - Developed utility software in Java and Python to automate routine tasks, reducing human error by approximately 60% and increasing operational efficiency.
  - Improved CRUD efficiency by 18% through server migration to SSMS, ensuring high service availability and implementing differential backups, leading to enhanced system reliability for stakeholders.
  - Strengthened security by identifying and patching vulnerabilities, including a high-risk Adobe ColdFusion flaw (criticality 7.9). Conducted updates and dependency checks to secure system integrity.
  - Built an accessible public-facing website using ASP.NET Core, Bootstrap, and Microsoft SSO, ensuring WCAG and AODA compliance. Managed Content Management System updates on Drupal and WordPress to maintain security and usability.

PROJECTS

- **Duolingo Clone**: Developed a two-month Duolingo clone using Next.js, TypeScript, TailwindCSS, and ShadCN UI, with backend support from Drizzle ORM and NeonDB (PostgreSQL). Integrated Stripe and Google SSO, enhancing my expertise in Drizzle ORM and database management.
- **SaaS AI Companion App**: Built CelebSavvy, an AI-driven SaaS app enabling celebrity interactions through Next.js, TypeScript, and vector databases (Supabase, PineCone). Integrated Stripe, Clerk, and Zustand for seamless functionality, improving user engagement and providing practical experience with vector database technology.
- **Google Capstone Project**: Engineered dual web endpoint system for Google Capstone using Python, Bash, and GCE watchdog, achieving 99.9% availability and setting a benchmark in system reliability and efficiency.
- **UMICH'S Web development Capstone**: Developed a responsive MERN stack website for UMICH Capstone, optimizing SEO through content structuring and metadata strategy, resulting in a 102% increase in organic traffic and substantially improving online visibility. .

Skills

- **Programming Languages**: JavaScript, Python, TypeScript, C#, PHP

- **Frameworks**: Next.js, React, TailwindCSS, ASP.NET MVC, Laravel, CodeIgnitor

- **Databases**: MySQL, NeonDB (PostgreSQL), Prisma ORM, Supabase, PineCone (vector database)

- **AI/ML**: Llama (fine-tuning for NLP tasks), Mistral 4, OpenAI embeddings, Replicate AI

- **Tools & Platforms**: AWS IAM, Git, GCE, Snort, LogRythm, Zustand, Zod

Certifications

- Artificial Intelligence   University of Helsinki (Dec 2022)

- Cyber Security   Google (Aug 2023)

- IT Automation with Python   Google (Nov 2022)

- System Admin and IT Infrastructure   Google (Sep 2023)

- Configuration Management and GCE   Google (May 2023)

- IT Support   Google (Sep 2022)