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Waterloo, ON

# EDUCATION

Conestoga College Waterloo, ON Computer Programming Diploma: GPA: 3.89 2023 - 2025

University of Michigan Michigan, MI 2021 - 2022

Web Development Certification; GPA: 4.00 (98.1%)

### EXPERIENCE

# Lead Web Developer

Remote

Eptics Inc.

May 2021 - 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.
- o 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.
- o 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.

Freelancing Remote GitHubSep 2020 - Aug 2023

o Developed an AI chatbot over five months using Mistral for an online retail startup on a Laravel platform,

- providing 24/7 customer support. Reduced response times by 73% and improved user satisfaction.
- Built a scalable eCommerce Content Management System using TypeScript and Node.js, with admin and front-end store capabilities, hosted on AWS. Leveraged TailwindCSS, Prisma, and MySQL to enhance efficiency and support retail scalability.
- o Implemented an Intrusion Detection System (IDS) using Snort and Python over three months, reducing manual false-positive log checks by 82% and enhancing security monitoring efficiency.
- Configured the Dataduct open-source workflow framework over three months to manage data pipelines, increasing developer productivity by 34% through reusable patterns and streamlined pull request management.

### **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
Cyber Security
IT Automation with Python
System Admin and IT Infrastructure
Configuration Management and GCE
IT Support
University of Helsinki (Dec 2022)
Google (Aug 2023)
Google (Nov 2022)
Google (Sep 2023)
Google (May 2023)
IT Support