

SUMMARY

Full-stack developer with a strong background in full-stack web application development, and an educational foundation in Economics and Commerce. Recognized for effective problem-solving skills and a proactive mindset that has led to the successful deployment of intuitive user interfaces and reliable, scalable backend processes. Passionate about driving innovation through continuous learning and application of the latest technologies, consistently delivering quality projects that enhance user experience and technical design.

EXPERIENCE

Originality.AI

Full Stack AI Web Developer (Contractor On-Call) · Jan. 2024 to July 2024 · Collingwood, ON

- Implement critical updates and resolve complex bugs, significantly improving stability and speed of web applications built previously during full-time employment
- Utilize a diverse tech stack, including JavaScript, PHP, and Python to develop and maintain features, enhancing user experience and functionality
- Complete development tasks on an as needed basis through close collaboration with the CEO

Jr Full Stack AI Web Developer (Full-Time) · Aug. 2023 to Dec. 2023 · Collingwood, ON

- Developed AI-powered web tools using a full-stack architecture, integrating Vue.js and PHP for a responsive full-stack experience
- Managed and built 4 projects from concept to launch, including market research, development, and deployment
- Collaborated with the team to conceptualize unique ideas for web tools, and conduct market research to identify gaps and opportunities
- Engineered web scraper scripts to conduct extensive studies on AI crawler bots that were used in articles published by Axios, Business Insider, Digiday, and more
- Write SEO-optimized articles and create video demos for the company's website that discuss the problems solved by the tools, effectively serving as launch content

Telus International AI

Online Data Analyst · Aug. 2022 to June 2023 · Vancouver, BC

- Completed research and evaluation tasks in a web-based environment to improve the content and quality of digital maps
- Verified and compare data to determine the relevance and accuracy of information, and to enhance Telus' AI and machine learning models
- Applied Telus' learning models to display strong research and analytical skills, resulting in an average accuracy rating of 87% for assigned tasks

PROJECTS

jimmyzhng.com (v2) · Sept. 2024 to Present

- Developed a visually engaging, updated portfolio website to showcase projects and skills, enhancing personal branding and online presence.
- Utilized modern web technologies including TypeScript, React.js, Next.js, and Three.js to create an interactive user experience.
- Implemented responsive design with TailwindCSS and animations using Framer Motion, ensuring a seamless experience across devices.
- **Tech Stack: TypeScript, React.js, Next.js, Three.js, TailwindCSS, Framer Motion**

Finance Dashboard · Sept. 2024

- Developed a web application designed for managing financial operations, including invoice creation, revenue tracking, and customer data management
- Intuitive interface supporting CRUD operations (Create, Read, Update, Delete) for invoices, equipped with search functionality and pagination for efficient data navigation.
- Secure user authentication with encrypted login credentials, ensuring data privacy through server-side validation and robust session management.
- **Tech Stack: Next.js, TypeScript, React.js, MySQL, TailwindCSS, PostgreSQL, Vercel, BCrypt**

AI Web Crawler Dashboard · Oct. 2023 to July 2024

- Web scraping application that tracks the robots.txt files of the top 1000 websites to analyze the blocking behavior for AI web crawler bots
- Managed and built the project individually, including the planning, design, execution, and monitoring
- Developed and implemented the automation of web scraping scripts that identifies a website's robots.txt file status, distinguishing between allowed access, complete blockage, and partial blockage
- Designed a Python script utilizing a binary search algorithm to identify the date that a website blocked a given web crawler bot
- Implemented daily real-time updates through cron jobs and deployed the application with AWS S3 & RDS
- **Tech Stack: Vue.js, PHP, Python, MySQL, AWS, Vuetify, Apex Charts**

Sentence Rewriter · Nov. 2023

- Developed a GPT-powered web tool for rewriting sentences, enhancing user engagement to bring traffic to the main company's application.
- Implemented features allowing users to upload URLs or files for content parsing, providing a seamless experience for input customization.
- Enabled users to tailor outputs with selectors for language, tone, and length, offering flexibility in content generation.
- **Tech Stack: Vue.js, PHP, OpenAI API, Vuetify, HTML, CSS**

AiSpy · Apr. 2023

- Developed a web application that provides a platform for users to manage a simulated network of surveillance cameras for a building.
- Real-time analytics of footage provided by object detection in the simulated livestreams, achieved with the Coco-SSD model of TensorFlow.js
- Integrated real-time graphing of the detection data, along with live alerts for sound detection and motion
- Ensured security for logins with bcrypt-hashed passwords and express-session for session management
- **Tech Stack: React, Express, Node.js, TensorFlow.js, PostgreSQL, AWS S3, Web Audio API, Apex Charts**

EDUCATION

Lighthouse Labs · Feb. 2023

Diploma of Web Development

University of British Columbia · June 2022

B.A. in Economics, Minor in Commerce