Jimmy Zhang

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WORK EXPERIENCE

Outlier AI   **Oct. 2024 – Present**
Coder (AI Training Freelance Contractor)   *Remote*
- Evaluate and improve code-based AI outputs across JavaScript, Python, and HTML/CSS prompts
- Contribute to the development of large language models from companies including OpenAI, Meta, Google, Microsoft and more
- Engineer prompts to challenge AI models and induce model failures, revealing vulnerabilities and contributing to improved reliability

Originality.AI   **Aug. 2023 - Jul. 2024**
Full Stack AI Web Developer (Contractor) | Jan. 2024 - July 2024   *Remote*
- Implemented critical updates to improve stability and speed of applications.
  - Optimized web scraping script performance, reducing completion time by 33%
- Maintained and extended features using a multi-language stack (JavaScript, PHP, Python), improving usability and system reliability
- Collaborated directly with the CEO to prioritize and execute development tasks with minimal turnaround time

Jr. Full Stack AI Web Developer (Full-Time) | Aug. 2023 - Dec. 2023
- Independently designed, developed, and launched 3 AI-powered web tools—handling everything from market research and UI/UX design to full-stack development and production deployment
  - **Stack**: JavaScript (Vue.js), PHP (backend), Python, MySQL, AWS, HTML, CSS, OpenAI
- Engineered web scraping scripts for AI bot detection research, resulting in media coverage by Axios, Business Insider, and Digiday
- Produced SEO-optimized articles and video demos to support product launches and enhance user onboarding

EDUCATION

Lighthouse Labs   **Feb. 2023**
Diploma of Web Development   *Vancouver, BC*

University of British Columbia   **May 2022**
B.A. in Economics, Minor in Commerce   *Vancouver, BC*

PROJECTS

AI Web Crawler Dashboard
JavaScript (Vue.js), PHP, Python, MySQL, AWS (S3 and RDS), Vuetify
- Full-stack web scraping application that tracks the robots.txt files of the top 1000 websites to analyze the blocking behavior for AI web crawler bots
- Independently planned, designed, developed, and maintained the project from end to end for Originality.AI
- Automated the classification of robots.txt files to detect full, partial, or unrestricted access for AI bots, using scheduled cron jobs to run scraping scripts consistently
- Stored and queried scraped data with a MySQL database hosted on AWS RDS using PHP for real-time analysis
- Visualized results in a dynamic, live dashboard using interactive charts and tables with filtering, searching, and saving functionality

AI Portfolio Chatbot
TypeScript, React, Express, LlamaIndex.ts, OpenAI, HTML, CSS
- AI-powered chatbot built for my website to answer questions about my background, skills, and projects
- Integrated retrieval-augmented generation to ingest and index personal data, enabling contextually accurate responses to user questions
- Built Express backend with TypeScript to handle chat requests, manage API calls to OpenAI, and serve vectorized document data

Finance Dashboard
TypeScript, Next.js, ReactJS, MySQL, TailwindCSS, PostgreSQL, Vercel, BCrypt
- 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 logins, ensuring data privacy through server-side validation and session management.

TECHNICAL SKILLS

- **Languages:** JavaScript/TypeScript, Python, PHP, Ruby, HTML, CSS
- **Frameworks:** ReactJS, Vue.js, Node.js, Next.js, Express, TailwindCSS, Vuetify, jQuery, SASS, EJS, Rails
- **Testing & Systems**: Jest, Storybook, Cypress, Mocha, Chai, MySQL, PostgreSQL, MongoDB, Git, AWS (EC2, S3, RDS)
- **Tools & Other**: Agile Development, REST APIs, Web Scraping, SEO, npm, Excel, Google Sheets, Vercel, Netlify