

Jack Zhang

Full-Stack Developer | Software Engineer

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SUMMARY

Results-driven Software Engineer with full-stack development experience and a business management and finance background. Proven track record of delivering high-quality solutions in fast-paced environments.

TECHNICAL SKILLS

Language: Javascript, Python | **Frontend:** React.js, Redux.js, Next.js, HTML, CSS, Tailwind CSS | **Backend:** Django, Flask, Node.js, Express | **Databases:** PostgreSQL, MySQL, SQLite, SQL-Alchemy, Sequelize | **Other:** AWS (EC2, S3, RDS), AWS Vault, GCP, Bcrypt, Data Structures & Algorithms, Architecture, Debugging, Deployment, OpenAI, Google GEMINI AI

EXPERIENCE

Full-Stack Software Engineer | Coursect Inc. (Start-Up) | 12/23 - Present

- Deployed Google Cloud Storage for scalable and reliable data storage solutions, achieving a **more than 90% reduction** in storage costs compared to Render.com
- Developed and integrated an image-chat feature utilizing Google Gemini Pro Vision API, increasing image recognition accuracy by over 80%, enabling users to ask questions about uploaded images
- Enhanced system design by adding models and establishing associations to track user progression, including subject performance tables and a questions model to monitor user answers comprehensively, enabling detailed tracking of user progression since platform enrollment
- Implemented exam feature with multiple-choice and fill-in-the-blank options, creating new models and associations, dynamically generating various question types using OpenAI API, laying the groundwork for future specific exams like the SAT and PSAT
- Implemented speech-to-text and text-to-speech features using the Web Speech API (WebkitSpeechRecognition for STT and SpeechSynthesisUtterance for TTS), enhancing user interaction by enabling non-typing and non-reading users to convert speech-to-text and vice versa
- Resolved Render deployment issues caused by new colleagues' lack of familiarity with web development practices, addressing merge conflicts promptly to maintain production site stability

Software Engineer | Major HVAC Inc. (Contract Work) | 05/24 - 07/24

- Developed a full-stack website for a local HVAC company using React.js, Flask, and PostgreSQL for the database
- Integrated Email.js to handle customer questions and inquiries directly through the website, enhancing customer interaction and support
- Managed the entire project lifecycle from development to deployment, ensuring high-quality and timely delivery

Full-Stack Software Engineer | Modern Technology LLC. (Contract Work) | 05/24 - 06/24

- Developed an SMS marketing platform enabling restaurants to sign up and send promotional codes to customers using React frontend and Flask/Python backend with a Postgres database
- Integrated 3rd party API (bird.com) to facilitate the sending of text messages, enhancing communication efficiency and reliability
- Designed and implemented a promo code generator, ensuring that codes are specific to individual restaurants, thereby preventing cross-usage and maintaining promotional integrity

Software Engineer | Sushiya Japanese Restaurant Inc. (Contract Work) | 03/24 - 04/24

- Developed a dynamic restaurant menu system utilizing CSV file integration, providing clients with a streamlined method for updating menu items
- Redesigned layout using Tailwind CSS, leveraging its built-in utilities for responsiveness, ensuring optimal user experience across various screen sizes
- Engineered animated menu pages to enhance user interaction and elevate the overall customer experience

EDUCATION

App Academy, Full Stack Development

2022 - 2023

- 1000-hour immersive full-stack web development intensive with < 3% acceptance rate

Long Island University, Bachelor of Science in Business Management / Finance

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