James Zhang
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Github | LinkedIn
Work Authorization: US Citizen

Professional Summary

Software Engineer with a strong foundation in Python, SQL, RESTful API development, and full-stack web development. Experienced in designing and deploying scalable backend systems and delivering user-friendly applications. Eager to leverage technical skills and innovative thinking to contribute to impactful software solutions.

Technical Skills

- **Programming Languages**: Python, JavaScript, SQL
- **Backend Development**: Flask, Django, RESTful API, WebSocket, GraphQL
- **Frontend Development**: HTML5, CSS, React, Bootstrap
- **Databases**: MySQL, PostgreSQL
- **Tools**: Git, GitHub, Docker, AWS
- **Key Skills**: Full-stack web development, API design and deployment, problem-solving, multitasking, communication, team work

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Projects

Repair_or_replace-back_end - **Github**

- Tech Stack: Python, Flask, SQLAlchemy, PostgreSQL, RESTful API
- Developed a backend system for a user-friendly app enabling homeowners and landlords to track appliance ownership and maintenance costs.
- Designed and implemented features for property and appliance management, including adding/removing properties, logging expenses, and tracking appliance status (e.g., working, needs repair).
- Built and deployed secure, scalable RESTful APIs for property and appliance data management.
- Utilized PostgreSQL to manage relational data and ensure fast, efficient queries.

Capstone Project: E-commerce Platform - **Github**

- Tech Stack: Flask, React, SQL, AWS
- Developed a comprehensive e-commerce platform with user registration/login, shopping cart management, and order processing features.
- Designed backend RESTful APIs using Flask and SQLAlchemy and implemented a responsive frontend with React.

Library Management System - **Github**

- Tech Stack: Python, SQL
- Designed and implemented a library management system supporting user registration, book borrowing, and inventory updates.
- Leveraged object-oriented programming (OOP) principles to optimize code maintainability and efficiency.

Professional Experience

Software Engineer Trainee – Coding Temple | Remote | 05/2024 – Present
Technologies: Python, Flask, React, SQL, PostgreSQL, Docker, AWS

- Developed RESTful APIs using Flask and SQLAlchemy to enable efficient data exchange for a user-friendly e-commerce platform, improving backend response time by 25%.
- Designed and implemented PostgreSQL database schemas to manage relational data, ensuring optimized query performance for real-time data retrieval.
- Integrated React frontend with Flask backend via Axios to deliver a seamless user experience across registration, login, and shopping cart features.
- Deployed full-stack applications to AWS using Docker containers, ensuring scalability and reliability in production environments.
- Collaborated with a team of 5 to follow Agile development practices, including daily standups and bi-weekly sprint reviews, improving task completion efficiency by 30%.

Administrative Assistant

John H Wu Medical Office, San Francisco, CA | 01/2021 – 12/2022

- Introduced a document management system, improving efficiency by 20%.
- Streamlined administrative workflows using tools like Excel and PowerPoint, ensuring smooth office operations.

E-Commerce Business Owner

Self-Employed, San Francisco, CA | 06/2014 – 09/2020

- Built and managed an online platform for educational material sales, achieving $400,000+ in revenue.
- Utilized tools like Shopify and Google Ads to optimize marketing campaigns and enhance customer engagement.

Education

Coding Temple Software Engineering Bootcamp

Certificate of Completion | Backend Specialization | December 2024

- **Mastered Python, Flask, React, SQL, and GraphQL.**
- **Designed and implemented RESTful APIs and built responsive web applications.**
- **Completed a capstone e-commerce platform showcasing full-stack expertise.**

Devry University, Oakland, CA

Master of Accounting & Financial Management | 2013

- **Focused on data analysis and financial modeling**.

Certifications

- Coding Temple Full-Stack Software Engineering Certificate (2024)
- Master of Accounting & Financial Management (2013)