

Xiaojie Zhou

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Professional Summary

A versatile and detail-oriented Full Stack Developer with experience in building scalable web and mobile applications, automating workflows, and enhancing user experiences. Proven track record in backend development with Java Spring, frontend exploration using React and React Native, and integrating secure payment systems like Stripe. Skilled in leveraging automation tools and data-driven techniques, including developing crawlers and optimizing influencer engagement workflows. Adept at designing secure databases, implementing advanced algorithms, and integrating third-party APIs. Passionate about delivering innovative and efficient solutions, with hands-on experience in both academic and real-world settings, including successfully deploying applications in educational environments.

Education

University of California - Los Angeles
Master's, Computer Science

September 2023 - March 2025

University of California - Irvine
Bachelor's, Computer Science

September 2019 - March 2023
GPA: 3.71

Professional Experience

NAYAD

Marketing Automation Intern

Remote

June 2024 - September 2024

- Developed and automated a crawler to identify potential nano influencers for brand collaborations, streamlining the discovery process.
- Designed and implemented algorithms to extract and analyze follower counts from Instagram and TikTok based on user handles, enabling data-driven decision-making.
- Automated personalized email outreach campaigns using batch processing, integrating engagement data for dynamic follow-ups with tracking tools.
- Built an automated workflow to manage end-to-end influencer engagement, from data extraction and outreach to real-time engagement analysis and follow-up actions.
- Leveraged programming skills to integrate and optimize multiple automation tasks, significantly reducing manual workload and improving efficiency.

University of California - Los Angeles
Computer Science Grader

Los Angeles, CA, USA
April 2024 - June 2024

- Evaluated and graded student assignments and exams for the Web Applications course, focusing on web development and programming.
- Recognized by students and faculty for providing exceptional feedback and support.
- Collaborated with instructors to develop grading rubrics and ensure consistent assessment standards.
- Contributed to maintaining the course's online resources and forums to facilitate student engagement and collaboration.

Intco Medical Industries Inc.

Workflow Automation Intern

Ontario, CA, USA

June 2020 - September 2020

- Developed automation scripts to reconcile and process tens of thousands of financial statements and invoices, ensuring error-free payments to vendors.
- Designed and implemented a digital time card system, integrating it with payroll and accounting platforms to streamline employee management and payroll processing.
- Scheduled and deployed software updates across the organization, ensuring all workers had the latest tools and systems without disrupting operations.
- Provided deskside support for troubleshooting various tech-related issues, enhancing IT operations and employee productivity.

- Onboarded new employees by setting up user accounts and deploying desktops and office equipment, ensuring a smooth start for team members.

Projects & Outside Experience

LoRa Device Message Management System

Los Angeles, CA, USA

Full Stack Developer

March 2024 - June 2024

- Collaborated in a team to build a full-stack system for receiving, storing, and displaying messages from LoRa devices.
- Developed a database using PostgreSQL to store device identifiers and message logs, ensuring efficient and reliable data storage.
- Built the front-end interface using Vue3 and Element Plus for device management and data aggregation, allowing for features like sorting, filtering, and real-time data display.
- Deployed the system using Docker on a Raspberry Pi, optimizing space and performance compared to other teams.
- Integrated with an existing LoRa network server (WiNGstack) and successfully managed real-time data from production devices.
- Overcame challenges such as debugging device communication issues and implementing Python to PostgreSQL integration.

Website Supporting Hand Gesture Control – INF 131

Irvine, CA, USA

Front end Developer

January 2023 - March 2023

- Developed a custom music player website using Spotify APIs, delivering a seamless user experience with responsive design.
- Implemented hand gesture recognition features, allowing users to navigate the website hands-free without relying on a mouse.
- Integrated gesture control into the site's interface, enhancing accessibility and demonstrating innovative use of front-end technologies.

Image to Text for Screen Reader – INF 131

Irvine, CA, USA

Project Manager

September 2022 - December 2022

- Integrated Google's Vision AI cloud service to create a prototype that processes images and extracts text descriptions.
- Developed a feature allowing quick image uploads and near-instantaneous generation of text descriptions.
- Automated the process by seamlessly integrating the solution with screen reader software, enhancing accessibility and user convenience.
- Managed the end-to-end development of the project, ensuring smooth implementation and alignment with accessibility goals.

E-Commerce Full Stack Website Developer – CS 122B

Irvine, CA, USA

Full Stack Developer

March 2022 - June 2022

- Developed a full-stack e-commerce website for film purchasing, focusing on backend functionality with Java Spring while exploring basic front-end design using React and React Native.
- Designed and managed a secure database for movies and identity management, implementing robust hashing and salting techniques for password protection.
- Integrated Stripe for payment processing, ensuring fully operational and secure transactions.
- Built and integrated RESTful API endpoints for seamless client-server communication, with backend services handling complex database operations.
- Created functional front-end interfaces for both web and mobile, focusing on backend integration while exploring cross-platform technologies.

Information Retrieval – CS 121

Irvine, CA, USA

Search Engine Engineer

September 2021 - December 2021

- Built a search engine from scratch that can process tens of thousands of Web pages under harsh hardware and network constraints and have a query response time under 300ms.
- Implemented crawler to download web pages with politeness and efficiently indexed them with tokenizer, stemmer, HashMap, and partial index.
- Implemented tf-idf ranking when processing queries to give the most relevant results.
- Balanced memory usage and efficiency by offloading the index multiple times and combining them afterward.
- Using a hierarchical index to boost the search process.

Overall Evaluation

Shanghai, China

- Developed an Android application used by a school in Shanghai to help K-12 teachers evaluate students more conveniently and effectively by simplifying the data entry process.
- Integrated QR code recognition using an open-source library, enabling quick and accurate identity verification for student data entry.
- Implemented a MySQL database to securely store and manage student data, with encryption and access controls to ensure data privacy.
- Published a research paper (in Chinese) in Digital Communication World (September 2018) detailing the project's implementation and outcomes.

Skills

Skills: Java, MySQL, TypeScript, React.js, AngularJS, Data Structures & Algorithms, React Native, Git, HTML/CSS, Web Development, Python, Agile, Bash, C/C++, Computer Networking, Firebase, Ionic, jQuery, Jupyter, MongoDB, Node.js, NumPy, OpenGL, Pandas, Python NLTK, Quickbooks, R, RDBMS, REST APIs, SEO, Product Management, Computer Architecture, Docker, Postgres, Postman

Languages: Mandarin, Chinese, English, English