

Xiaojie Zhou

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EDUCATION

University of California, Los Angeles (UCLA), MS in Computer Science Expected, June, 2025

- Relevant Course Work: Cloud Computing, Internet of Things, Human-Computer Interaction, Large-Scale Data Mining, Computer Systems Architecture, Software Engineering, Big Data Analytics
- Masters of Science in Computer Science

University of California, Irvine (UCI), BS in Computer Science 2023

GPA: 3.71

SKILLS

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

Languages: Mandarin Chinese(Native), English(Professional)

PROFESSIONAL EXPERIENCE

NAYAD Remote

Marketing Automation Intern 06/2024 - 09/2024

- Formulated a crawler to identify potential nano influencers for brand collaborations, streamlining discovery process, generating hundreds of potential candidates in minutes
- Designed and implemented algorithms to extract and analyze follower counts from Instagram and TikTok based on user handles, enabling data-driven decision-making and improved productivity by 16%
- Generated personalized email outreach campaigns using batch processing, synthesizing engagement data for dynamic follow-ups with tracking tools and reducing 85% of repetitive work
- Created an automated workflow to organize end-to-end influencer engagement, from data extraction and outreach to real-time engagement analysis and follow-up actions, getting more responses than previous 2 months in 2 weeks

Intco Medical Industries Inc Ontario, CA, USA

Workflow Automation Intern 06/2020 - 09/2020

- Constructed automation scripts to reconcile and process tens of thousands of financial statements and invoices, ensuring error-free payments to vendors and simplifying workflow
- Deployed a digital time card system; it works with payroll and accounting platforms to streamline employee management and payroll processing, improving correctness and productivity by 9%
- Scheduled software updates across organization biweekly, ensuring all workers had latest tools and systems without disrupting operations
- Migrated historical data between databases during transition to new systems used by 3 departments
- Onboarded new employees of 3 teams 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 03/2024 - 06/2024

- Collaborated with a team of 4 to design and develop a full-stack system for receiving, storing, and displaying messages from multiple LoRa devices
- Constructed a database using PostgreSQL to store device identifiers and message logs, ensuring efficient and reliable data storage
- Prototyped front-end interface using Vue3 and Flask for device management and data aggregation, allowing sorting, filtering, and real-time data display
- Distributed system using Docker on Raspberry Pi, optimizing storage (under 500MB) and performance (under 30% CPU usage)
- Utilized WiNGstack and organized real-time data emitted from 3 registered SparkFun devices
- Brainstormed with team members and mentors when debugging device communication issues and fixing Python to PostgreSQL integration; created one workaround and prompt plan

E-Commerce Full Stack Website Developer - CS 122B Irvine, CA, USA

Full Stack Developer 01/2022 - 03/2022

- Lead development of a full-stack e-commerce website for film purchasing, focusing on backend functionality with Java Spring while exploring basic front-end design using React
- Designed and managed a secure and efficient database structure containing thousands of movies and identity management, implementing robust hashing and salting techniques for password protection
- Integrated Stripe for payment processing, ensuring full functions and secure transactions with 0% failure rate
- Fabricated and integrated more than 20 RESTful API endpoints for seamless client-server communication, with several backend services handling complex database (MySQL) operations
- Created functional front-end interfaces for both web and mobile, focusing on backend integration using React Native to support different OS platforms

Information Retrieval - CS 121 Irvine, CA, USA

Search Engine Engineer

09/2021 - 12/2021

- Built a search engine from scratch; it can process tens of thousands of Web pages under harsh hardware and network constraints and kept query response time under 300ms
- Implemented crawler to download tens of thousands of web pages (as permitted by the department) with politeness and efficiently indexed with tokenizer, stemmer, HashMap, and partial/hierarchical index
- Implemented tf-idf page ranking algorithm when processing queries to give 20 most relevant document links each page
- Balanced system memory usage and efficiency by offloading index multiple times to accommodate large indexes (around 8 GBs) and combining afterward when necessary

Overall Evaluation

Shanghai, China

Full Stack Developer

01/2018 - 06/2018

- Designed and developed an Android application used by a school in Shanghai to help K-12 teachers evaluate students more conveniently and by simplifying data entry process
- Integrated QR code recognition using an open-source library, enabling fast and 100% 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 paper (in Chinese) in Digital Communication World journal (September 2018 issue) detailing system implementation as first author