

# Zizhao(Charlie) Zheng

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Austin, Texas

## OBJECTIVE

Software Engineer Specializing in TypeScript and Python, with a focus on crypto data analysis and web enhancement/support. Proficient in web application development, database management, and cloud computing (AWS, GCP). Experienced in building full-stack applications, data pipelines, and integrating blockchain APIs. Skilled in analyzing on-chain and off-chain data, market trends, and exchange activity to generate actionable insights. Committed to delivering high-quality, secure, and scalable solutions to support data-driven decision-making in SaaS platform.

## EDUCATION

- **San Diego State University** Aug. 2020 - Dec 2023  
*Bachelor of Science* San Diego, California
  - GPA: 3.7/4.00

## EXPERIENCE

- **Full-Stack Software Engineer** On-Site  
*Alias Intelligence*  June 2025 – Nov. 2025
  - Delivered full-stack features using **TypeScript** (backend) and **React + shadcn/ui** (frontend), enhancing UI consistency, data reliability, and component stability.
  - Built and maintained backend services integrated with **AWS DynamoDB, CloudWatch, and SES**, ensuring robust monitoring and accurate data flow.
  - Refactored legacy code and optimized shared components, improving performance with streamlined logic and caching.
  - Implemented UX improvements, including filtering, sorting, navigation fixes, and policy/email logic updates.
  - Resolved internal requests efficiently, completing workflow adjustments, data corrections, and content updates.
  - Improved cross-team collaboration by enhancing task visibility, communication, and reporting.
- **CoinHeatMap**  Nov. 2024 – Apr. 2025  
*Junior Software Engineer* Remote
  - Designed and developed the platform using React, Node.js, and MongoDB, focusing on real-time cryptocurrency heatmaps and social volume analytics.
  - Integrated REST and WebSocket APIs to deliver up-to-date insights on trending coins and influential creators.
  - Implemented advanced visualizations using D3.js and Chart.js, enabling dynamic, real-time market data interaction.
  - Optimized performance and scalability using Docker, AWS (S3, EC2), and Cloudflare for high-volume crypto data processing.
- **LY MarTech** May 2024 – Aug. 2024  
*Junior Software Engineer — Internship* Remote
  - Developed management dashboards for patient data, lab orders, medical encounters, equipment maintenance, and pharmacy stock using Flask, Docker, and Kubernetes.
  - Implemented secure login/registration, persistent cookie authentication, and HTTPS via Nginx supporting multi-level user privileges.
  - Integrated patient feedback, AI diagnostics, medication reminders, telemedicine features, and a healthcare chatbot.

## PROJECTS

- **Discord Trading Analysis** Dec. 2024 - Mar. 2025  
*Tools: Python, Matlab, Pandas* 
  - Implemented custom command handling for financial data lookups, analysis, and response generation.
  - Integrated data processing logic to parse trading signals and visualize trends for user-friendly insights.
  - Leveraged asynchronous programming patterns to ensure responsive bot performance under concurrent command loads.
  - Maintained a modular, extensible codebase (290+ LOC) to support future functionality such as alert systems and trading strategy comparisons.