Zih-Huan Kuang

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Education

University of California, San Diego   **Sept. 2024 – Jun. 2026 (exp.)**
M.S. in Computer Engineering   *La Jolla, CA*
- Courses: Programming for Data Analysis, Principle/Software Engineering, 3D Printable Robotics, VLSI Integr Cmputing Circuitry, Networked Services, Machine Learning for Music, ML for Physical Applications, Recommender Sys&Web Mining, Prob & Stats for Data Science, Ethics and Economics of AI

Technical Skills

Languages: Java, JavaScript, C#, Python, PHP, SQL, HTML/CSS
Data Management: SQL Server, Oracle SQL, MySQL, MongoDB, Firebase
Web Development: Express.js, Node.js, React.js, Spring Boot, ASP.NET MVC, Four-Tier Architecture, Kendo UI
Technology: Azure, AWS, GCP, Docker, Git, Kubernetes, PowerShell, Helm, Nginx, Elasticsearch

Work Experience

Meta   **Jun. 2025 – Sept. 2025**
Software Engineering Intern | Hack PHP, GraphQL, React   *Menlo Park, CA*
- Delivered over **70 diffs with 8000+ significant lines of code**, completing all assigned milestones three weeks ahead of schedule and taking on two additional projects beyond the intern scope.
- Resolved a critical Agent Connect UI re-fetch issue, **cutting redundant GraphQL queries by 36%**, and refactored existing code to improve readability and maintainability.
- Led development of the **Case Audit AI Internal Tool**, designing the UI prototype, integrating LLM API calls for transcript analysis, and gathering team feedback to guide feature improvements.
- Designed and implemented key features for the **Bot Confirmation of Case Creation Project**, including debugging the support bot framework in **MV4B IG Chat** and proposing scalable solutions adopted by the team.
- Collaborated across teams to clarify APIs, align on metrics, and resolve system-wide issues, receiving recognition from **seven team members** for impactful contributions.

IBM   **Aug. 2022 – Jun. 2024**
Application Developer | Java, Spring Boot, Kubernetes, Azure, SQL Server, Elasticsearch   *Taiwan*
- **Developed over 50 RESTful APIs** using **Domain-Driven Design (DDD)** within a **Java four-tier architecture framework** for key operational domains in the WPG Warehouse Management System.
- Implemented automated system deployment using **Azure DevOps (CI/CD)** and integrated **SonarQube** into the CI pipeline to enhance system security and streamline version control efficiency.
- **Established a Dataflow Server** to execute batch tasks within the Supply Chain Management system and designed a user-friendly UI dashboard to monitor batch provenance status.
- Utilized **Elastic Search** and **Azure Analysis Services** to help **resolve nearly 65% of critical system issues** and monitor system performance, significantly improving operational efficiency.

Galaxy Software Services   **Jan. 2021 – Jun. 2021**
Software Engineer Intern | C#, ASP.Net MVC, JQuery, Kendo UI, Oracle SQL   *Taiwan*
- Developed the Personal Financial Audit System for Fubon Bank using the **ASP.NET MVC framework**.
- Implemented backend services with **C#** and **Oracle SQL**, and created responsive frontends with **Kendo UI**, **delivering 15 new features**.
- Assisted in **writing unit tests for each API functionality**, enhancing system testing and deployment efficiency.

Selected Projects

Smart Glasses | *Python, GCP, Firebase, React Native*   **2019 – 2020**
- Developed and Integrated Hardware Modules using Raspberry Pi, leveraging GPIO to connect peripherals such as cameras, GPS modules, and OLED micro displays to enhance system functionality.
- Developed real-time image translation and navigation features using Python (speech recognition, pyttsx) and Google Cloud Platform API services enabling instant translation and accurate navigation.
- Leveraged Firebase to facilitate seamless communication between smart glasses and the mobile application, ensuring reliable transmission and reception of captured images and videos.

Exchanger | *Flutter, Node.js, MSSQL*   **2020**
- Developed functions of Exchanger mobile App through Flutter that can support cross-platform (Android and iOS).
- Used Node.js to develop Web API, MSSQL to build database server. Designed APIs with a RESTful API Architecture.