

Haozhe (Alex) Zhang

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EDUCATION

University of Southern California

Master of Science in Computer Science, GPA 3.75/4.00

January 2022–May 2023

University of Florida

Master of Science in Management, Combined Degree, GPA 3.56/4.00

January 2020–August 2021

University of Florida

Bachelor of Science in Computer Science, Cum Laude, GPA 3.62/4.00

August 2016–December 2020

TECHNICAL SKILLS

Frontend/Mobile Development: JavaScript, TypeScript, HTML, CSS, Less, Tailwind, React, Next.js, Redux, MobX, RxJS, React Native, Spring MVC, Thymeleaf

Backend Development: Node/NestJs/Egg.js, Python, Java, Spring Boot, Spring Security, Flask, Redis, Kafka

Databases: MySQL, Firebase, MongoDB, MyBatis, Hibernate, Sequelize, Redis

Machine Learning: Pandas, Numpy, PyPlot, Seaborn, Sklearn

INTERNSHIP EXPERIENCE

Schlumberger

May 2022–August 2022

Software Developer Intern / Schlumberger-Doll Research

Cambridge, MA

- Created a backend management module with **React** to monitor current status of company's visualization platform.
- Refactored platform's Logplot with **INT GeoToolkit APIs**, allowing users to visualize multiple logs within one single track.
- Redesigned controller mechanism for geographic 3D visualizer renderer written in **Three.js** for better user experience.
- Revamped development and testing experience by transplanting existing 13 unit test cases from Linux to Windows.

Meta Force, LLC.

March 2022–May 2022

Software Developer Intern

Beverly Hills, CA

- Developed company's official website with animations and responsive design with **React, Redux, Tailwind**, and **Vite**.
- Built and hosted multiple official websites of company's NFT products on Heroku, leading to a profit of \$10 thousand.

Xiaomi

September 2021–December 2021

Software Developer Intern & Intern Interviewer / Department of MIUI Experience

Beijing, China

- Developed multiple sections for MIUI 13's official website (miui13.home.miui.com/tv) with **Next.js** and **Tailwind**, and adjusted visual effects to match department's changing expectations and achieved 1 million DAU.
- Boosted operations team's work efficiency by developing splash screen and product library management modules for Xiaomi Community's backend with React to enable automated splash screen and product management.
- Carried out new APIs for Xiaomi Group's privacy policy management platform with **Egg.js** and **MySQL-Sequelize**, enabling administrators to access published privacy policies and publish new policies through server to clients, etc.
- Enriched animation solution pool by analyzing and reproducing animations on Apple MacBook Pro's official website.

Alibaba

May 2021–August 2021

Software Developer Intern / Alibaba Cloud Utility Products Business Unit

Hangzhou, Zhejiang, China

- Expanded functionality and improved usability of Alibaba Cloud by implementing new features, varying from constructing the Advanced Features page of VPC to carrying out the VSwitch change-of-binding module of VRouter-Table, resulting in an indirect increase in revenue of \$0.2 million.
- Devised a code generation solution with **React.js** and **Handlebars.js** in order to enhance efficiency and ensure efficient throughput of large frontend development teams.
- Wrote automated test cases for DHCP Options Set and Smart Access Gateway and created tutorial documentation to improve new employees training efficiency by 20%.

PROJECTS

Nowcoder

December 2022–January 2023

Engineered and hosted a social media application with **Spring Boot, Spring MVC, MySQL, MyBatis, Redis**, and **Kafka**.

- Implemented user login, profile settings, direct message, post, comment, like, and follow modules via **Spring MVC, Spring Boot, Spring Security, Thymeleaf, MyBatis**, and **Redis** including email activation, **Kaptcha** generation, etc.
- Devised system notifications for user like, follow, and comment events by utilizing **Kafka** to achieve a fast response.
- Deployed the project on a **Google Cloud** e2-medium instance hosted at <http://35.184.221.134/>.
- Utilized **Quartz** to recurrently calculate post rankings every 5 min and **Caffeine** to enhance program efficiency via caching.
- Integrated **Spring Boot Actuator** and **Spring Security** to expose project endpoints and calculate UV and DAU of the site.

Humming

April 2020–September 2020

Programmed a mobile application simulating delivery service via drones and robots within San Francisco in the Agile fashion.

- Engineered all 7 screens to provide functionalities of user authentication, solution planning, order creation, status tracking, profile information modification, etc., with **React Native** and **Firebase**.
- Enhanced user experience by integrating polyline drawing, route computation, coordinate translation and payment services.
- Devised APIs for order creation and management, payment information generation and validation, and address management.

InMotion

November 2019–September 2020

Engineered a real-time web app in order to analyze human facial expressions from webcam and video by sorting emotion data into 7 categories and displaying data with a visual diagram.

- Constructed user authentication module with **Node.js, Express.js**, and **Mongoose**, and blurred user auth info with **JWT**.
- Applied **Firestore** to store facial expression data uploaded every 100 frames for further facial expression analyses.

