

# KEDAN ZHA

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## EDUCATION

### New York University

September 2020 - May 2024

Bachelor's, Computer Science, Minor Game Design, Minor Digital Art and Design

- Agile Development and DevOps, Artificial Intelligence, Robotics Intelligence, Software Engineer, Operating Systems.

## SKILLS

**Coding:** Swift, Python, JavaScript, Java, C/C++, Docker, Flask, Git, Linux, HTML/CSS, React, Tailwind, Express, RESTful, SQL, Unity, Golang, GameMaker

**Tools:** Figma, Adobe Illustrator, Photoshop, InDesign, DigitalOcean, Firebase, MongoDB, Postman, Zbrush, Blender, Gemini, OpenAI

**Languages:** Sibe, Chinese

## PROFESSIONAL EXPERIENCE

### Capybara AI - Cofounder & Full-Stack Dev

NYC, October 2023 - Present

- Produced implementation plan with feature requirements analysis and staged milestones, maintained technical documentation on code and design for future reference and ease of usage across developers, greatly reducing unnecessary overheads.
- Implemented scalable SwiftUI components from Figma designs, integrating Gen AI and ML pipelines to process clustered news and stock data from NYSE and S&P 100, achieving real-time, visually appealing, and user-friendly stock information delivery.
- Designed a push notification service using Firebase Cloud Messaging and topic messaging to inform users of significant stock price fluctuations every 30 minutes, accompanied by Gen AI and ML summarized news events, resulting in five-minute average reads for quick updates.
- Integrated Firebase Authentication with SSO for user authentication and management, enabling users to personalize profiles with photos, customize notification settings, and edit recurring subscriptions from their devices, and developers to administrate users' subscriptions from Firestore.
- Developed a GPT-prompted news quantification pipeline to extract key innovation and stability events from the past months, analyzing their sentiment influence on individual stocks and providing users with comprehensive company performance profiles along with SEC filings analysis.
- Led cross-functional discussions across backend, frontend, and UI teams to revise system designs based on user feedback, significantly improving app flow and user experience.

## PROJECTS

### Image Processing App with TensorFlow (Python) – Full Stack Dev

September 2022 - December 2022

- Developed a user-centric web interface using React, integrated with a shared MongoDB database and a TensorFlow-based machine learning client. Implemented GitFlow development using GitHub Actions and Docker Compose, resulting in streamlined and more user-friendly installation steps.
- Led a team of five developers through three agile sprints, fostering a highly collaborative environment focused on adaptive planning and rapid delivery. This iterative approach resulted in shortened development cycles and more time dedicated to app deployment readiness and fine-tuning.
- Achieved test code coverage of 80% for all three subsystems. Deployed the application to the cloud using DigitalOcean Droplet services and incorporated CI/CD practices for both the web application and ML clients within Docker containers. Enabled the ML client to cache transformed images using DigitalOcean storage, resulting in a significant reduction in average processing time to under one minute.

### Mobile Shop Prototype Rise - Figma Designer

February 2022 - May 2022

- Streamlined the prototype development process in collaboration with product managers by utilizing Figma's wireframing tools to deliver detailed diagrams. Conceptualized basic wireframes with a user-friendly interface, significantly reducing design validation time and increasing stakeholder engagement by 50%.
- Designed high-engagement mockup views for social media campaigns, featuring high-impact visuals and interactive content that improved awareness and promoted healthier lifestyle choices.
- Employed advanced UML diagramming and user story creation to enhance functional specifications. This approach provided a clear and structured visualization of the system architecture and user interaction flow, facilitating better understanding and implementation.

### HighVintage Mobile App - Full-Stack Dev

February 2023 - May 2023

- Pioneered a development team of five, orchestrated branding identity tailored for vintage shopping enthusiasts, leveraging React, Express, and MongoDB to construct a robust, user-centric interface and back-end infrastructure, resulting in a notable uplift in user engagement and system stability.
- Strategically steered product development, executing comprehensive feature analysis and advisement to meet critical milestones in four scalable Agile sprints, significantly expediting the product's evolution and enhancing its readiness for a mock market launch.
- Directed the optimization and consistent maintenance of the platform's deployment on DigitalOcean, utilizing a MongoDB Atlas database for seamless real-time updates to the codebase and efficient new feature test flights, which substantially increased developer productivity and streamlined post-launch feature release processes.