

Tyrae Yao

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Work Experience

Loadstar Sensors, Software Engineer | Aug 2023 - June 2025

- **Led full-stack development** of customer-facing iOS and web applications using **React Native**, enhancing platform accessibility and user engagement.
- **Developed a desktop application using Python** to interface with **load cell sensors**, enabling real-time data communication and enhancing testing workflows for engineering and production teams.
- **Built and deployed scalable backend infrastructure** with **Firebase (Auth, Firestore, Hosting)** to support real-time data operations and secure user authentication.
- **Partnered with cross-functional teams** to define and implement solutions aligned with real-time sensor hardware, bridging technical execution with business outcomes.

Freelance, Tech Consultant | Jul 2021 - Present

- **Provided strategic technology consulting** for local restaurants & barbershops, including **POS integration (Square)**, automation, and workflow optimization.
- **Designed and implemented real-time KPI custom dashboards** and inventory tools using **React**, and **Next.js POS APIs**, translating business requirements into efficient software solutions.
- **Served as a trusted technical advisor**, delivering practical, cost-effective systems that aligned with client operations and goals.

Education

B.S. in Software Engineering, San Jose State University — San Jose, CA, 2022

Projects

iVMI (ivmi.com or [Mobile App](#)) - Full Stack

- Developed and launched the iVMI web and iOS mobile application using React Native, providing a seamless inventory management solution. and user interface elements.
- Designed and implemented user-friendly interfaces, ensuring high usability and accessibility standards were met across web and mobile platforms.
- Integrated Firebase for backend services, including authentication, database management, and hosting
- Collaborated with cross-functional teams to define, design, and ship new features in line with company needs and business objectives.

EFT Guessr (eftguessr.com) - Full Stack

- Showcased strong problem-solving and creative thinking skills through the development of custom game mechanics and user interface elements.
- **Utilized Firebase Firestore to manage database functionality and data storage for the application**
- Created an intuitive and user-friendly back-end interface for managing game settings, scoring, and data analytics
- Conducted thorough testing and debugging to ensure a smooth and enjoyable game experience for users

