

# Erik Hein

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## EDUCATION

### San José State University

Bachelor of Science, Computer Science

May 2025

San José, CA

- **Courses:** Data Structures and Algorithms, Object-Oriented Design, Database Management System, Information Security, Machine Learning, Computer Vision, Mobile Device Development, Software Engineering, Programming Paradigms

## WORK EXPERIENCE

### IDitor Inc.

Software Development Engineer

May 2024 – Present

Cupertino, CA

- Architect an AI-powered social media app using **Flutter**, **Riverpod (for state management)**, and **SQLite (for offline support)**, enabling real-time sync and reducing interaction latency by **35%** for 100+ beta users.
- Implement interactive 3D-like UI components applying Physics engines, resulting in boosted average session time by **20%**.
- Construct **modular, reusable Flutter widgets** and animated UI elements to revamp responsiveness and visual consistency, setting the UI apart from competitors in the market.

### Bridge Burma

Full-Stack Software Engineer & UI/UX Designer

Aug 2023 – Nov 2024

Remote

- Built a **proofreading submission platform** using **Next.js** and **Supabase**, serving 100+ international students, streamlining review workflows and decreasing processing time by **40%**.
- Designed intuitive UI/UX with **Figma**, contributing to **95%** positive feedback for usability and aesthetics.
- Collaborated in developing real-time submission and feedback flows, automating user interactions, and improving feedback efficiency by **30%**.

## PROJECTS

### Trekteria: AI-Powered Outdoor Planning App - (<https://www.trekteria.com/>)

Feb 2024 - Present

- Led development of a full-stack **React Native/Expo** cross-platform mobile app, implementing advanced features including AI trail assistance and real-time weather tracking while maintaining modern, responsive UI.
- Engineered scalable back-stack architecture using **Firebase** and **SQLite** enabling seamless offline-first experience.
- Implemented eco-conscious features including smart trail recommendations, sustainable packing lists, and fun eco-missions leading to 30% increase in user engagement.

### SJ Snap: AI-Powered Civic Engagement Web App - (<https://sjsnap.vercel.app>)

April 2025

- Led a team of 3 in developing a hackathon project, SJSnap, an AI-driven web app designed to simplify and accelerate the process of reporting city-related issues through the existing 311 system.
- Integrated an **AI-power verification** operating by Google's **Gemma3** model and **Next.js** to validate image-description consistency, ensuring more reliable civic issue reports during a **24-hour hackathon**.
- Engineered secure report storage with Supabase, providing granular **privacy controls** (public/private) fostered user trust and encouraged broader civic engagement by making users comfortable sharing sensitive data.

### Zen Board: AI Scheduler - (<https://zenboardai.vercel.app/>)

Sep 2024

- Deployed a full-stack smart scheduling tool with AI-driven task optimization, leveraging **Next.js** and **Supabase** to deliver personalized, real-time schedule generation for improved focus.
- Integrated a **generative AI** for automated schedule optimization, revamping daily task efficiency by **50%**.

### Type In Zen - (<https://typeinzen.vercel.app/>)

Apr 2024

- Developed a narrative-driven typing game in **ReactJS** combines AI-generated storylines with calming visuals and audio to reduce user stress and enhance focus.
- Earned **93%** positive user feedback on the intuitive and engaging design of the application.
- Implemented **custom animations** to provide a smooth user experience that improves typing accuracy.

## SKILLS

- **Skills:** Java, C++, Python, Flutter, React Native, JavaScript, TypeScript, HTML, CSS, React, Node.js, Next.js, SQL, Supabase, Tailwind, JavaFX, Arduino, Scikit-learn, Tensor Flow, Figma, Adobe XD, Rive, Git, Matter.js, Docker, GCP