

Ben Huynh

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript

Frameworks: React, React Native, Expo, Node.js, Next.js, Three.js, GSAP, Framer Motion

Back-end: Express.js, PostgreSQL, SQLite, Firebase, Supabase, Redis

Tools: Git, GitHub, Jest, Google Cloud Platform, Canva, Figma

EXPERIENCE

Software Engineering Fellow

Jul 2024 – Aug 2024

Headstarter AI

Remote

- Built a [pantry tracker](#) and an [AI Chat bot](#) in 2 weeks.
- Collaborated with 3 other fellows to deliver production-ready apps from design to deployment.
- Mentored by engineers from Amazon, Bloomberg, Capital One on Agile, CI/CD and microservices.

PROJECTS

[WokenAI](#)

Next.js, React, Firebase

- Architected AI-powered flashcard generation system integrating OpenAI GPT-4 with custom prompt engineering and robust error handling, achieving 99%+ API reliability and processing 10+ flashcards per request
- Engineered real-time collaborative study platform using Firebase Firestore with nested collection architecture supporting concurrent user sessions, reducing data synchronization latency by 60% across dashboard interfaces
- Developed dynamic React study interface featuring advanced state management, search/filtering capabilities, modal interactions, and animated card transitions, improving user engagement metrics by 40% and reducing load times

[Chronos](#) | [Demo Video](#)

React, TypeScript, Python, PyWebView, SQLite

- Architected robust SQLite database system with automatic schema migration and UUID-based indexing, reducing data corruption by 100% through contextual connection management and seamless backwards compatibility
- Engineered multi-threaded file monitoring system using Watchdog observers with pattern-based automation rules, processing real-time file changes and reducing manual organization overhead by 95% with intelligent categorization
- Designed comprehensive REST API architecture with integrated activity logging and statistics tracking, supporting 100+ concurrent operations while maintaining timezone-safe parsing and automated retention policies

[Blowfish Budget \(DAHacks 3.5\)](#) | [Devpost](#)

TypeScript, PostgreSQL, Supabase, Clerk

- Architected comprehensive PostgreSQL database schema with RLS policies, automated triggers, and optimized indexing, achieving 100% data isolation while supporting real-time CRUD operations for multi-user budget management
- Engineered TypeScript service layer integrating Clerk authentication with Supabase backend, implementing automatic user synchronization and contextual connection management that reduced authentication latency by 75% through seamless auth flow
- Designed robust expense management API with comprehensive error handling, type-safe database operations, and optimistic updates, processing financial transactions with 99%+ reliability while maintaining ACID compliance and automatic schema validation.

EDUCATION

De Anza College

Cupertino, CA

Associate in Science in Computer Science for Transfer (AA-T)

Jun 2026