

# Ethan Liu

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## Education

### Boston University College of Arts and Sciences - Boston MA

Bachelors of Science in Computer Science

Fall 2023 - May 2025

Boston University College of General Studies

Spring 2022 - Spring 2023

- 2023 Capstone Award Winner

## Skills and Projects

### Wise Waste | *Kotlin, Jetpack Compose, Firebase, Veryfi API*

- Developed an Android budgeting app tailored for young adults, leveraging **Jetpack Compose** for a modern UI and **Kotlin** for efficient app architecture.
- Integrated **Firebase Authentication** (OAuth) and **Cloud Firestore** for secure real-time data storage.
- Implemented **Veryfi API** for automated receipt scanning and intelligent expense tracking.

### SparkBytes | *React, TypeScript, Vite, Firebase, Mapbox API*

- Engineered a **web app** that helps Boston University students discover and attend free food events on campus, using **React**, **TypeScript**, **Vite**, and **Agile** methodology.
- Implemented interactive maps with **Mapbox API** to display event locations, calculate user travel times, improving event accessibility and planning.
- Designed responsive and intuitive UI with **Ant Design**, ensuring consistency across devices
- Integrated **Google OAuth** for secure University Single Sign-On (SSO) and **Cloud Firestore** for scalable user data management.

### VidOwna | *Python, Solidity, AWS, Secure Enclaves, React, TypeScript*

- Built a **decentralized** social video platform enabling creators to earn ETH from verified view counts using **trusted execution environments** (attested secure enclaves) deployed on **AWS EC2**.
- **Crypto wallet integration** and real-time view tracking with transparent, fraud-resistant payouts.
- Designed a **responsive, intuitive UI** for publishing and monetizing video content

## Work Experience

### AdWorth AI - Cofounder & Founding Engineer

July 2025 - Present

- Launched a creator compensation transparency platform, live at [www.adworth.ai](http://www.adworth.ai).
- Built a full-stack web app with **React**, **TypeScript**, **Tailwind**, **shadcn/ui**, and deployed on **Vercel**.
- Developed a secure backend on **Supabase (PostgreSQL, RLS, Edge Functions)** to enable authenticated submissions and anonymized public insights.
- Designed interactive dashboards for **TikTok**, **Instagram**, **YouTube**, and **Twitch** with responsive layouts, advanced filtering, and real-time analytics.
- Implemented authentication, password reset, and privacy features including rate limiting and data sanitization.

## Languages

English | *Native*

Chinese | *Conversational Fluency*

American Sign Language | *Conversational Intermediate*