

Eventure: A *Swipe-Based* Campus Event Discovery Platform

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Abstract

- Campus events are frequent but **poorly advertised, non-targeted**, leading to **low student engagement**
- By pairing an intuitive swipe-based UI with a recommendation engine & central dataset, Eventure connects students to **tailored campus events**.

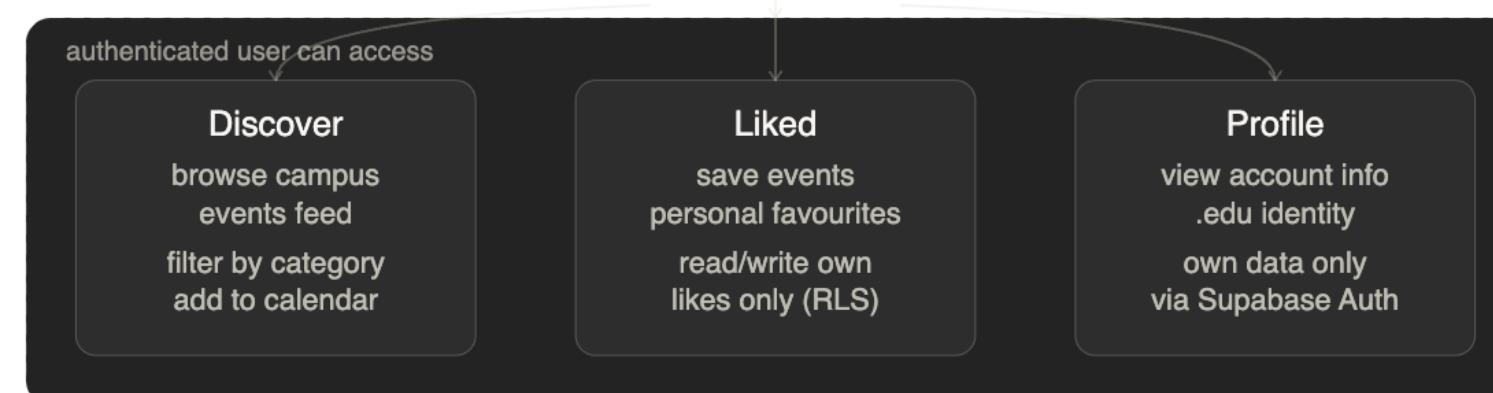
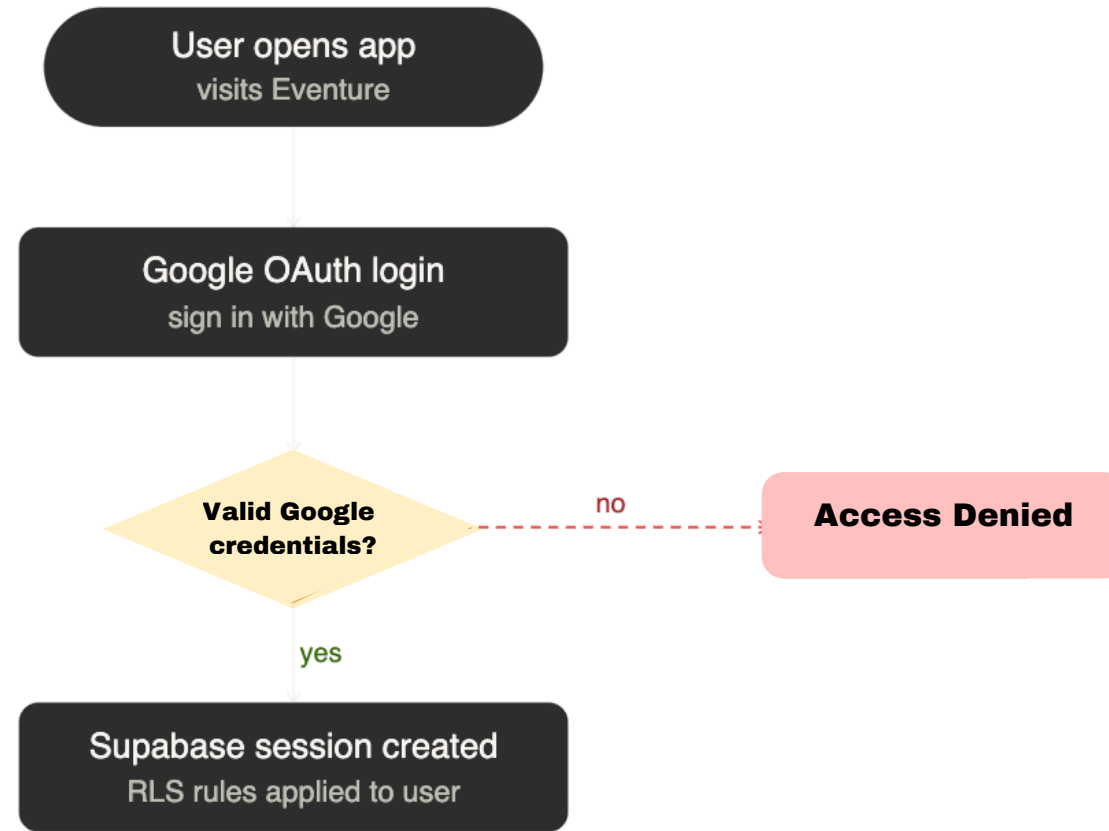
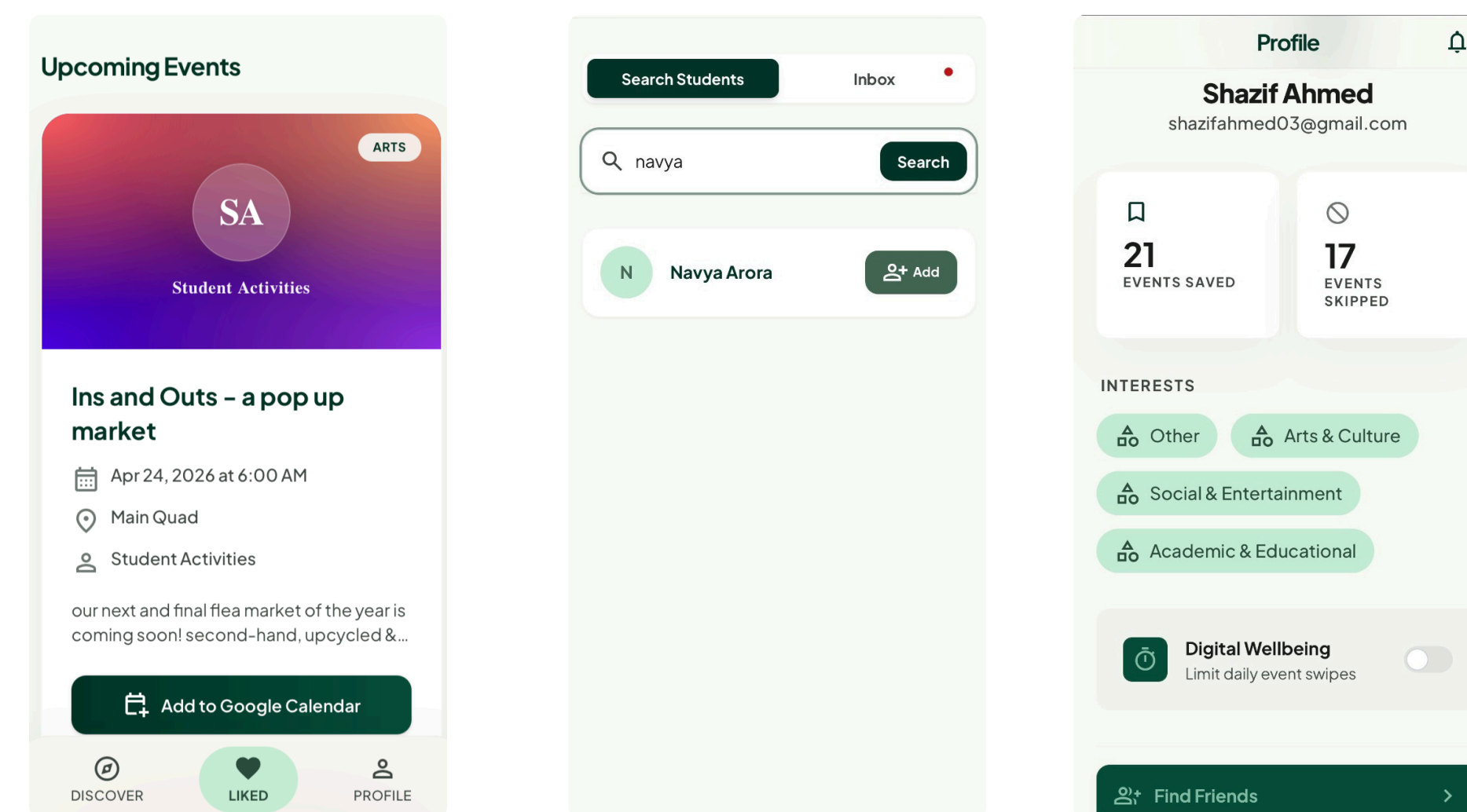
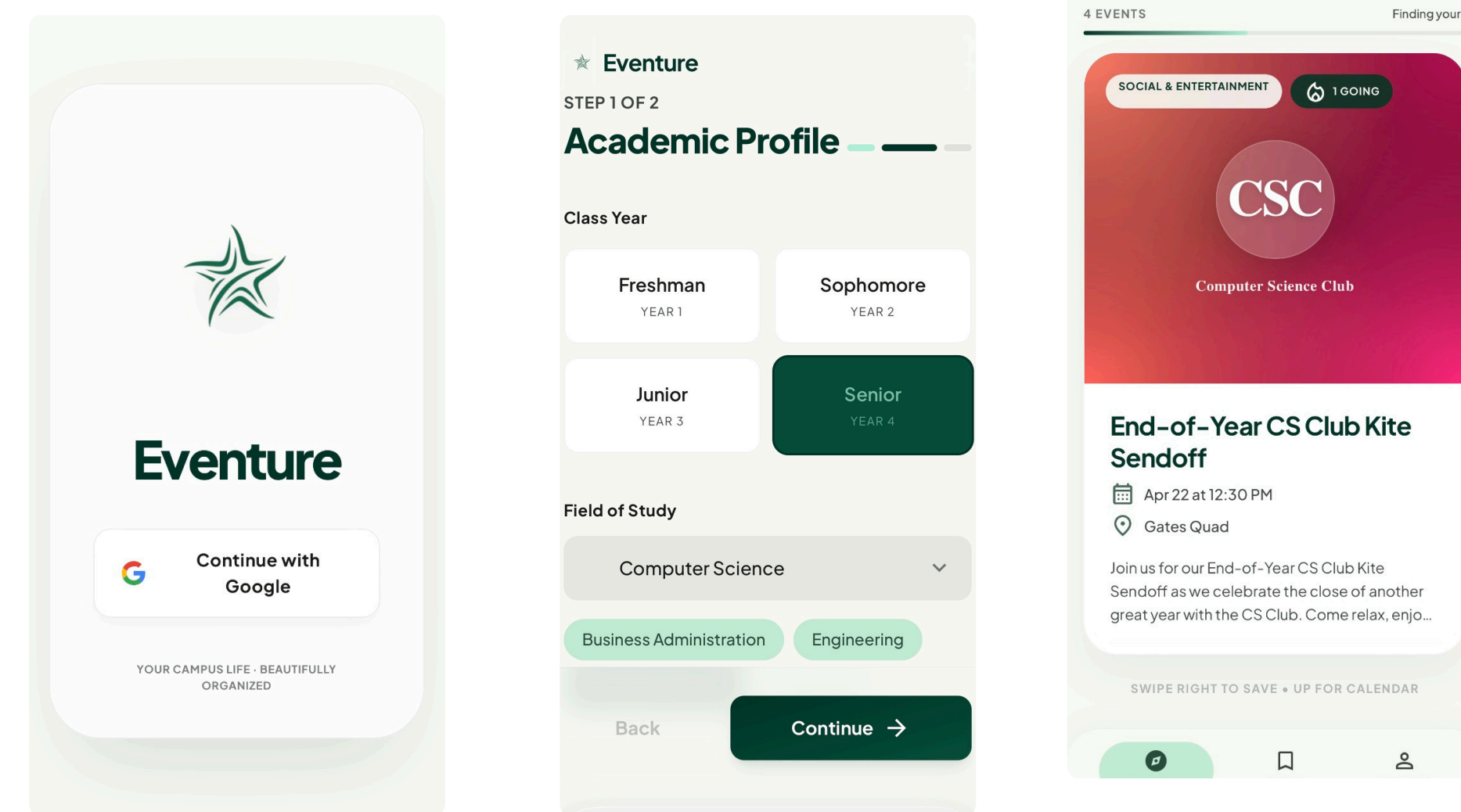
Motivation & Problem

- **The Problem:** Event information is fundamentally fragmented across emails, legacy bulletin boards, and disjointed social media groups.
- Students suffer from “information overload,” missing relevant opportunities entirely.
- **The Solution:** A centralized, highly engaging platform that curates events via a modern, swipe-able interface.

System Architecture & Tech Stack



- **Frontend:** Next.js 14, React, TypeScript, Tailwind CSS
- **Animations & UI:** Framer Motion (swipe physics), Lucide React
- **Backend / DB:** Supabase (PostgreSQL + Row Level Security)
- **Authentication:** Google OAuth
- **Deployment/CI-CD:** Github, Vercel
- **Android:** Capacitor (v8.3.1)



Key Features & Engine

Interactive Discovery: Users swipe right to “save” or left to “skip” events, “up” to add to their calendar.

Recommendation Engine: The backend tracks interactions (likes/skips), calculating dynamic scoring:

- **Category Affinity:** Liked categories get a boosted rank.
- **Recency Weighting:** Recent preferences influence more.
- **Discovery Factor:** Related categories surface more.

Friends + Who’s going: Real-time attendee counts to boost engagement.

Evaluation & Results

- Deployed a functional web app & Android (apk) in production. Access via QR code.
- The recommendation algorithm effectively bounds “information overload” by surfacing highly relevant, time-aware events at the top of the stack.
- Reduced friction: Adding an event to a calendar now takes 1 click versus an average of 5 previously.



Future Work & Acknowledgement

- Next iteration: Admin Portal for organizations to publish events and access engagement analytics.
- Special thanks to Professor Chandranil Chakrabortti and the CS Department for their valuable mentorship and resources.