Allen Arriaga

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Education

University of Massachusetts Amherst — Amherst, MA
Bachelor of Science in Informatics — *Expected Dec 2026*

- Relevant coursework: Object-Oriented Programming, Intro to Data Science, Statistical Modeling, Applied Statistics

Experience

Solo Developer — Aug 2026 – Present
Lual, iOS app live on the App Store — *Remote*

- Built and launched a group calendar app for planning time with friends, growing it to **2,900+ registered users** and **1,700+ monthly active users** in 3.5 months, using React Native (Expo), TypeScript, Supabase and Node.js
- Built AI schedule import: an Express API sends a photo or typed schedule to Gemini and returns structured calendar events, with a model fallback chain, per-user weekly quotas and rate limits that keep the feature inside free-tier limits
- Designed a PostgreSQL schema of 30 tables through 79 migrations, secured with 100+ row-level security policies, now storing **35,000+ calendar events**
- Traced delayed push notifications to a retry job that only ran while the server was awake, by querying production data, and moved it to a scheduled database job that runs every 2 minutes
- Implemented Apple and Google sign-in, encrypted session storage, StoreKit 2 subscriptions verified on the server, and an iOS home screen widget; shipped releases through v1.0.6

Projects

Banter | *React Native, TypeScript, Supabase, Agora, Node.js* — Jan 2026 – Present

- Building a live video and audio debate app (not yet released) with multi-speaker rooms and one-on-one matchmaking on Agora real-time video, a Node.js API on Render and a Supabase Postgres backend
- Ran a multi-round security audit before launch covering row-level security, streaming token handling, purchase verification and input validation; built referral fraud checks using device attestation (App Attest, Play Integrity)
- Built a read-only analytics dashboard in Next.js combining 13 SQL metric views with Render, Agora, App Store Connect and AdMob data, gated by typecheck, unit tests, a secret scan and Playwright end-to-end tests

Pluto | *Next.js, TypeScript, Supabase, Gemini, MCP* | *HackUMass* — Nov 2026

- Built and demoed an assistant that syncs a student's Canvas courses, assignments and lecture PDFs, then answers questions with page-level citations through web chat, SMS and an MCP server for Claude, ChatGPT and Cursor
- Served the MCP tools over OAuth 2.1 from one shared tool layer, backed by Postgres full-text search and row-level security
- Directed a team of AI coding agents in separate git worktrees, with CI (typecheck, lint, database tests) and an independent review on every security-sensitive change before merge

Technical Skills

Languages: TypeScript, JavaScript, Python, SQL, Java, R, HTML/CSS
Frameworks: React Native (Expo), React, Next.js, Node.js, Express, Tailwind CSS
Data & Backend: PostgreSQL, Supabase (Auth, Row-Level Security, Storage), MySQL, REST APIs, OAuth 2.0, MCP
Tools: Git, GitHub Actions, Vitest, Playwright, Render, Vercel, App Store Connect, Gemini API, Claude Code, Cursor