Kevin Galvan

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Summary

Sole engineer on Conosi, a consumer EdTech platform (React Native, Expo, TypeScript, Supabase), taken from concept to App Store submission with institutional backing from SJSU's College of Education and legal support from Harvard and USC law clinics.

Professional Experience

Founding Engineer, *Conosi* **Remote** *05/2025 - Present*

- Designed and shipped a custom feed-ranking algorithm (engagement scoring, recency decay, follow multipliers, fresh-post promotion) — over-fetching 3× candidates server-side and ranking to a top-20 feed, keeping client payloads lean for fast scroll performance
- Optimized feed rendering and media handling with memoized post components, session-level view caching, and on-device HEIC→JPEG transcoding — cutting image payload sizes and keeping scroll performance smooth on iOS
- Owned data security end-to-end: authored 79+ Row-Level Security policies across 3 audit rounds and enforced atomic server-side operations to eliminate race conditions in high-frequency user interactions (likes, follows, DM creation)
- Built real-time 1:1 messaging from scratch, including deduplication-safe conversation creation under concurrent requests
- Implemented layered content moderation (client-side filtering + server-side validation) so no unsafe post reaches the database — protecting a consumer app serving university communities
- Built the full release pipeline solo: TypeScript strict mode, 173-test Jest suite, EAS production builds, TestFlight distribution, and App Store submission
- Operate an AI-native development workflow (Claude, GitHub Copilot agents) for feature scaffolding, test generation, and refactors — with manual review gates on security-sensitive code

Project Management Intern *NASA Ames Research Center* **Mountain View, CA** *01/2022 - 05/2022*

- Built data visualizations using Chart.js to surface trends in NASA's small spacecraft mission data, reducing manual analysis time by 25%
- Designed and populated a MongoDB database to aggregate, clean, and organize mission data from multiple sources, improving data accessibility by 40%
- Collaborated with a 6-person cross-functional team on a full-stack web application delivering research insights to stakeholders

Projects

Yelp Open Dataset Challenge - PySpark, Spark SQL, Databricks, Tableau *Databricks Notebook*
01/2022 - 06/2022

- Processed 8.6M Yelp reviews and 160K business profiles across 8 metro areas using PySpark on Databricks to investigate whether college proximity skews restaurant ratings
- Implemented two-pass fuzzy matching using Levenshtein distance to classify 49K+ restaurants as chain or independent, identifying and correcting a 7.16% misclassification rate
- Computed geodesic distance pairings between 49K restaurants and 1,044 college campuses using geopy, filtering to 38K+ restaurants within 3.5 miles for final analysis
- Built interactive Tableau dashboards (heatmaps, box plots) published to Tableau Public for stakeholder presentation of findings across all metro areas

Skills

- **Languages:** TypeScript, JavaScript, Python, SQL, C++
- **Backend & Data:** PostgreSQL, MongoDB, Spark SQL, REST APIs, WebSocket, third-party integrations, schema design, RLS, query optimization
- **Devops & Tooling:** Git, GitHub, CI/CD, Jest, TypeScript strict mode, AI-assisted development (Claude, Copilot) debugging
- **Mobile & Frontend:** React Native, Expo, React, Tailwind CSS/NativeWind, EAS Build, TestFlight

Education

BS Management Information Systems *San Jose State University* **San Jose, USA** *08/2020 - 08/2022*