



RYAN ZERNACH

AI Infrastructure & iOS/Android App Engineering

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SUMMARY

I am a startup activist who is devoted to teaching & learning. I believe that everyone who writes software is standing on the shoulders of giants. I have a proven full-stack track record of developing iOS/Android apps, machine learning pipelines, powerful back-ends, and agentic AI workflows.

TECH STACK

- React Native Mobile Apps (iOS & Android)
 - AI & Machine Learning Infrastructure
 - Agentic LLMs / OpenAPI Pipelines
 - Azure / AWS / Google Cloud
 - Postgres / SQL / GraphQL / NoSQL
 - TypeScript / React JS / Next JS / HTML
 - XCode / Android Studio
 - Github Actions / CI CD / ETL Protocols
 - Custom CLI Generators & Bash Scripts
 - Node JS / Nest JS / Back-end Engineering
 - Dashboards & Data Visualizations
 - End-to-End (e2e) Tests & Unit Tests
 - Fluent in TypeScript and Python
 - Webscraping Datasets
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EXPERIENCE

AI Engineer & React Native Engineer • **Archlife Industries, LLC** (100% Remote)

Dec 2020 – Present

- Published two marketplace apps and four social network apps
- Deployed agentic AI endpoints for an online marketplace mobile app
- Developed a cross between Robinhood & Facebook for exchanging stocks & crypto
- Architected a online marketplace for buying/selling deliveries of physical products
- Created a fitness iOS/Android app for managing gym sessions and making payments
- Refined an iPad React Native app to improve the map's performance and the bluetooth extension

AI Engineer & React Native Engineer • **CellarTracker** (100% Remote)

Aug 2023 - Present

- Helped to boost the new app's ratings to 4.9 average, with over 3,000+ 5-star ratings
- Architected agentic OpenAPI pipeline, semantic kernel logic, and cellar chat experience
- Rebuilt legacy mobile app using React Native for modernization purposes
- Implemented activity feed posts, barcode scanning, and image search
- Created end-to-end (e2e) test suites to ensure long-term quality and stability
- Iteratively improved the redux store for efficient and persistent state management
- Engineered the API for collecting mobile app report tickets, which generate HTML emails
- Developed the mobile app's analytics implementations for tracking tracking user interactions

React Native Engineer • **Demosphere** (100% Remote)

Mar 2022 - May 2023

- Re-engineered the app's architecture using CLI file generators
- Integrated group chat features, push notifications, and calendar sync
- Improved efficiency by reducing loading times and number of GraphQL API calls
- Transitioned the entire codebase from Javascript to Typescript
- Generated reusable hooks, scripts, components, and screens
- Evaluated Google Crashlytics to further improve stability & performance

- Integrated various APIs, including: bank accounts, stocks, and cryptocurrencies
- Managed front-end, custom back-end cloud functions, and authentication endpoints
- Wrote the data visualizations logic for viewing the performance of stocks & crypto
- Built social network features: chat, user profile, posts, likes, emojis, and comments
- Constructed core functionality: copy portfolio, trending investors, and popular stocks
- Custom-built a companion admin web dashboard to monitor the mobile app's performance

- Taught over 900 college students JavaScript, HTML, CSS, Python, dashboards, databases, API's, & machine learning
- Managed a busy schedule of remotely teaching 30+ students per week for ~60 minutes per lesson

EDUCATION

- Productionizing Machine Learning Models, Python, HTML, Data Engineering, SQL, NoSQL, Back-End API's, Dashboards, Image Recognition Models, Natural-Language Processing (NLP) Models, Neural Networks, Data Visualizations, Statistical Analysis, Classic Algorithmic Paradigms, Time Complexity, Data Structures

- Calculus I, Calculus II, Calculus III, Statistics, Data Structures, Programming Principles I, Programming Principles II, Discrete Mathematics, Ethics of Computers in Society

CERTIFICATIONS

- AWS Cloud Practitioner
- Google Cloud Developer
- DataRobot 10x Data Science AutoML
- Mosh: React Native Academy
- Y Combinator Startup School
- TensorFlow Developer

PORTFOLIO WEBSITE

