RYAN ZERNACH
Senior Software Engineer (Full-Stack)

Ryan@Zernach.com • Ryan.Zernach.com • LinkedIn • Github • 100% Remote

HIGHLIGHTS

- Strategic full-stack engineer with 10+ years of experience in AI Agents, Mobile Apps, Python, MLOps, Node, & React
- Shipped front-end & back-end of CellarChat™ agentic chatbot to 1M+ members & created LLM evaluation patterns
- Completed AI Engineering Fellowship at Gauntlet AI (Top 2% of applicants) to expand my arsenal of AI strategies
- Awarded Top 10 of 10,000 global projects with an AI Voice Assistant for the 2024 NASA Space Apps Challenge
- Boosted mobile app ratings to 4.9★ (10k+ reviews) and lifted recurring revenue by 25%+ with Apple Pay subs
- Taught hundreds of students about low-latency ML endpoints and zero-downtime PostgreSQL migrations

TECH STACK

- LLMOps / RAG / MCP / Voice Agents / Evaluations
- LangChain / GenAI / OpenAPI / Semantic Kernel
- Machine Learning Pipelines / Computer Vision
- Python / PyTorch / PySpark / ETL / TensorFlow
- Cloudflare / AWS / Azure / GCP / CloudOps
- DevOps / Docker / Kubernetes / Terraform
- Vector Databases / SQL / GraphQL / NoSQL
- Git / Bash / Cursor / Claude / Orchestration
- AuthN / AuthZ / OAuth / Identity / Security

- React Native / iOS / Android / Swift / Kotlin / Expo
- TypeScript / React / Redux / Node / Next / Streamlit
- WebSockets / Queues / RabbitMQ / Redis / WebRTC
- FastAPI / Flask / Express / Rust / .NET / C# / Go / Java
- Blockchain / dApps / Wallets / Ethereum / Solana
- Apple Pay / Subscriptions / Stripe / IAP / Webhooks
- SEO / Marketing Automations / Campaign Attribution
- IMAP / SMTP / Emails / SMS / Twilio / Push Notifications
- Systems Observability / Analytics / Admin Dashboards

CERTIFICATIONS

- **2025**: *Gauntlet AI Engineering Fellowship (G3)*
- **2024**: *NASA Space Apps Hackathon Winner*
- **2023**: *GenAI with Large Language Models*
- **2022**: *Ethereum Blockchain Developer*
- **2021**: *Mosh React Native Academy*

- **2020**: *Machine Learning Pipelines (DataRobot)*
- **2020**: *TensorFlow Computer Vision Developer*
- **2020**: *Google Cloud Platform Developer*
- **2019**: *AWS Microservices Practitioner*
- **2019**: *Y Combinator Startup School*

EDUCATION

Data Science & Machine Learning   *2020 – 2021*
Vanderbilt University • 100% Remote • Nashville, TN

- As a helpful Teaching Assistant, I gained exposure to hundreds of diverse machine learning applications
- Taught 900+ college students machine learning, Python, API's, TypeScript, HTML, dashboards, and databases
- Managed busy schedule of remotely teaching 30+ university students per week in 1:1 setting (one hour per person)

Data Science & Machine Learning   *2019 – 2020*
Lambda School / BloomTech (Funded by Y Combinator) • 100% Remote • San Francisco, CA

- Deploying Supervised/Unsupervised Machine Learning Models, Recommendation Engines
- Computer Vision (CV) Models, Time-Series Forecasting, Natural-Language Processing (NLP) Pipelines
- Python, SciKit-Learn, PySpark, Data Engineering, PostgreSQL Databases, Back-End APIs (Flask / FastAPI)

Computer Science & Mathematics   *2011 – 2012*
Georgia Southern University • Statesboro, GA

- Visual Basic, Calculus, C, C++, R, Statistics, Data Structures, Programming Principles, Linear Regression

EXPERIENCE

AI Engineer / Mobile Engineer • **CellarTracker** • *Remote, Seattle*   *2023 - 2025*
- Wrote TypeScript front-end & Python back-end of CellarChat™ LLM chatbot for 1M+ active members
- Architected OpenAPI pipeline, fine-tuning pipeline, LLM evaluations, and admin observability systems
- Integrated intelligent ML-powered recommendations for world's largest online database of wine reviews
- Helped to boost app store ratings to 4.9★ average with 10,000+ verified 5-star ratings on iOS and Android
- Embedded Apple Pay subscriptions in the React Native app to generate additional 25%+ recurring revenue
- Implemented animations, barcode scanning, activity feed posts, recommendations, and OCR image search
- Streamlined the Redux store for fast, efficient, and persistent global state management between app sessions
- Rebuilt the React Native app's analytics implementations for tracking critical user interactions and app behavior

Mobile Engineer • **Demosphere** • *Remote, Washington D.C.*   *2022 - 2023*
- Transitioned entire codebase from Javascript to Typescript for increased long-term maintainability
- Implemented updates to front-end according to schematics in Figma from the design team
- Improved computational and network efficiencies by reducing load times and runs to the database
- Evaluated Google Crashlytics to reduce edge case crashes and improve p95 stability and performance
- Iterated on group chat features, push notifications, and native calendar sync to improve user satisfaction

Full-Stack React Native Developer • **FinEquities** • *Remote, Miami*   *2021 – 2022*
- Built fintech app to compete with Robinhood by exchanging stocks/crypto & connecting bank accounts
- Wrote the data-visualization logic for viewing and comparing the performance of different stocks/crypto
- Built social network features, such as direct chat, user profiles, posts, likes, emojis, & threaded comments
- Constructed core mobile app functionality, including: copy portfolio, trending investors, & suggested stocks
- Custom-built a companion admin web dashboard to monitor mobile app performance & infrastructure health

React Native Developer • **instaSod.com, CustomizedChristmasLights.com** • *Atlanta*   *2015 – 2019*
- Converted PHP websites to React Native and marketed businesses to generate $500k+ of gross sales in 3 years
- Managed online presence for two small businesses: landscape design/contracting & seasonal outdoor lighting
- Engineered user experience of uploading videos/images, survey questions, and receiving PDF pricing proposal

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PERSONAL PROJECTS

Founding Full-Stack Engineer • **Archlife Industries Software** • *Remote, Miami*
- Created my own personal mobile apps to solve my problems & new users sign up everyday
- Setup custom observability dashboards for marketing, analytics, API logs, & database admin
- Deployed agentic endpoints for facilitating merchant onboarding and inventory management
- Automated LLMs to advertise on Reddit by reading threads and commenting on the best posts
- Built end-to-end MLOps pipelines to enable low-latency inference and continuous model updates
- Productionized chatbots using RAG, agentic tool-calling, voice-powered commands, & interactive maps

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Thank you for reviewing my resume!

Ready to interview me? Let's chat:

Schedule Meeting