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SUMMARY

I'm Ryan, an Al-savvy team member & leader who calmly ships production-grade software. I build agentic workflows supported by schema-validated outputs and lightweight evals. I measure impact in hours saved, latency, accuracy, \$/task, and \$/quality. I've deployed both front-end apps and back-end infrastructure at every level of production environments — 10+ years of Engineering, 7+ years of Python, and 5+ years of TypeScript & React

TECH STACK

- LLM Ops / Semantic Kernel / LangChain / CrewAl
- OpenAPI Pipelines / MCP / Agents / Evaluations
- Machine Learning / PyTorch / NLP / Fine-Tuning
- Cursor / Copilot / Windsurf / Continue
- Databases / SQL / GraphQL / NoSQL
- Azure / AWS / GCP / Cloud / SecOps
- GitHub Actions / CICD / FastLane
- DevOps / Docker / Kubernetes

- React Native / iOS / Android / Web / Expo Router
- TypeScript / React JS / Next JS / HTML / Streamlit
- Apple Pay / Payments / Subscriptions / Checkout
- IMAP / POP / Email Automations / Notifications
- Admin & Ops Dashboards / Internal CLI Tools
- WebSockets / Flask / FastAPI / Express / DNS
- Queues / RabbitMQ / Scheduled Cron Jobs
- Marketing Analytics / Sales Engineering

EXPERIENCE

Al Engineer & Solutions Architect • Archlife Industries Software (100% Remote)

2020 - Present

- Published four social networking apps and two digital marketplace platforms
- Deployed agentic Python endpoints for facilitating merchant onboarding & inventory management
- Architected marketplace eCommerce platform with an emphasis on security, scalability, & analytics
- Shipped a cross between Robinhood & Facebook for securely exchanging stocks & crypto with scoreboards
- Automated email marketing campaigns to attract business owners to list their products on our platform
- Created a fitness iOS/Android app for managing gym sessions and making online payments to trainers
- Refined an iPad React Native app to improve the map's performance and the bluetooth extension

Al Engineer & iOS/Android Engineer • CellarTracker (100% Remote, Seattle)

2023 - 2025

- Helped to boost the new app's ratings to 4.9 average, over 8,000+ 5-star ratings
- Wrote both the front-end & back-end for CellarChat™ LLM agent to 1M+ members
- Architected OpenAPI pipeline, fine-tuning pipeline, & LLM metrics evaluation pipeline
- Embedded Apple Pay code in the React Native mobile app to generate higher revenue
- Implemented recommended wines, activity feed posts, barcode scanning, image search
 Engineered the API for collecting mobile app report tickets, which generate HTML emails
- Developed the mobile app's analytics implementations for tracking user interactions
- Rebuilt legacy mobile app using React Native to support both iOS & Android devices
- Iteratively improved the redux store for efficient and persistent state management
- Created end-to-end (e2e) test suites to ensure long-term stability of key features

React Native Developer • Demosphere (100% Remote, Washington D.C.)

2022 - 2023

- Transitioned entire codebase from Javascript to Typescript for increased long-term maintainability
- Improved existing group chat features, push notifications, and native calendar sync to improve app reviews
- Evaluated Google Crashlytics to reduce edge case crashes and improve p95 stability & performance
- Improved computational and network efficiencies by reducing load times and runs to the database

- Integrated various APIs, including: bank accounts, stocks, and cryptocurrencies
- Managed front-end, custom back-end cloud functions, & 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, & suggested stocks
- Custom-built a companion admin web dashboard to monitor the mobile app's performance

Web Developer • instaSod.com, CustomizedChristmasLights.com

2015 - 2019

- Marketed my self-built websites and my businesses to generate \$500k+ of gross sales in three years
- Planned & founded two LLC's in my early 20s: landscape design/contracting & professional christmas lighting
- Engineered user experience of uploading videos to website, answering questions, & receiving PDF pricing proposal

EDUCATION

Machine Learning & Data Science (Teaching Assistant)

Vanderbilt University, EdX • 100% Remote • Nashville, TN

2020 - 2021

- Through the act of teaching, I gained exposure to hundreds of machine learning applications
- Taught 900+ college students machine learning, API's, JavaScript, HTML, Python, dashboards, & databases
- Managed a busy schedule of remotely teaching 30+ university students per week for ~60 minutes per lesson

Data Science Software Engineering

Lambda School (AKA BloomTech) • 100% Remote • San Francisco, CA

2019 - 2020

- Productionizing Supervised/Unsupervised Machine Learning Models, Recommendation Engines
- Deploying Computer Vision (CV) Models, Natural-Language Processing (NLP) Pipelines
- Python, Data Engineering, SQL vs NoSQL Databases, Back-End API's (Flask / FastAPI)

Computer Science & Mathematics

Georgia Southern University • Statesboro, GA

2011 - 2012

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

CERTIFICATIONS

- 2019: Y Combinator Startup School
- 2019: AWS Cloud Practitioner
- 2020: Google Cloud Developer
- 2020: TensorFlow Developer

- 2020: Machine Learning Pipelines
- 2020: Mosh React Native Academy
- 2022: Ethereum Blockchain Developer
- 2024: NASA Hackathon Finalist (Top 1%)

PORTFOLIO WEBSITE

