Ricardo G. D'Alessandro

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SUMMARY

Full-stack engineer of 10 years building AI products end to end — RAG, LLM evals and agentic tool-calling on a platform grown from zero to ~4,000 daily users. Prior work: LaunchDarkly, CNN, AWS, Fidelity, Visa. US citizen.

TECHNICAL SKILLS

AI Engineering: RAG, LLM evaluation & judge models, agentic tool calling, model management, observability (Arize)
Backend: Python, Node.js, Express, FastAPI, GraphQL, REST APIs, SQL, PostgreSQL, MongoDB, DynamoDB
Frontend: TypeScript, JavaScript, React, Next.js, React Native, Expo, Redux, Zustand, TanStack Query, Tailwind
Cloud & Infrastructure: AWS (Lambda, ECS, S3, IAM), Terraform, Vercel, EAS, GitHub Actions, CI/CD
Testing & Tooling: Unit & E2E testing, Playwright, Maestro, Detox, Storybook, Vite, Webpack, Git
Blockchain: ethers.js, web3.js, bitcoinJS, Web3Auth, MPC key management (tKey), embedded wallets, passkeys
AI-Assisted Development: Claude Code, Cursor IDE, MCP, Skills, Warp Terminal, Git worktrees

PROFESSIONAL EXPERIENCE

RGD Solutions — Independent Consultancy, Remote | *Senior Full-Stack Software Engineer* | 2017 – Present

AI Engineering

- **Morgan & Morgan** — AI document-intelligence platform for the largest U.S. personal-injury firm, grown from zero to ~4,000 active legal staff, 80% of its attorneys and paralegals. Built RAG retrieval with per-answer provenance, an LLM eval harness with five judge models, agentic tool calling, demand-letter generation on AWS, and AI drafting inside Microsoft Word. Python, TypeScript, AWS, Elasticsearch, Terraform
- **Astrocade** — AI game-creation platform for multi-agent game generation. Built the AI content-moderation pipeline on AWS Rekognition and OpenAI, hardened the media upload path, and introduced end-to-end testing from zero — 130+ Playwright specs and a sharded Maestro suite. Next.js, Expo, Python Lambdas, DynamoDB
- **D-ID** — Built the mobile app version of Creative Reality Studio, a generative-AI video platform supporting 120+ languages, letting users produce AI-generated talking-avatar video. React Native, TypeScript, React Query
- **SeeOnMe** — Developed the customer-facing UI from scratch for an AI virtual try-on app that renders clothing on a photorealistic model of the user. React Native

Web & Mobile Applications

- **LaunchDarkly** — Built Experimentation and Observability features for the feature-management platform serving 5,500+ enterprise customers and 45 trillion daily flag evaluations. TypeScript, Next.js, React, Storybook
- **Handshake** — Remediated over 80% of accessibility violations across the campus-recruiting platform serving 20M+ students at 1,400+ universities and 750K employers. TypeScript, React, SCSS
- **ZenBusiness** — Built eCommerce cart and checkout flows for the business-formation platform behind ~1M businesses incorporated and $150M annual revenue. React, Redux, Router
- **CNN** — Shipped an OTT app to Roku, Apple TV and Fire TV from one React Native codebase. You.i Kit
- **Amazon AWS** — Built a suite of web and mobile applications for the company's international conferences, including re:Invent. TypeScript, React, React Native
- **KPMG** — Built a facility-concierge app using Bluetooth Low Energy to unlock hotel rooms from a smartphone, with indoor fine-location detection and routing. React Native, Redux, BLE
- **Professional Bull Riding (PBR)** — Built the fan mobile app covering schedules, standings, rankings and mini games. React Native, TypeScript, GraphQL

Blockchain & Fintech Applications

- **DFlow Protocol** — Primary mobile engineer on Haze, a Solana DEX iOS and Android app: passkey and MPC threshold-key wallet sessions (Web3Auth/tKey) and a multiplexed RPC layer. Expo, React Native, Solana web3.js
- **Fidelity** — Developed the customer-facing UI from scratch for MVP1 and MVP2 of a tokenized investment product for shares of Bitcoin mining hash-rate profits. React, Redux, Storybook, styled-components, ethers.js

Visa — Austin, TX | *Senior Front End Software Engineer* | 2016 – 2017

- Shipped features and fixes for Visa Checkout, an e-commerce payments product used by millions of consumers

CERTIFICATIONS & EDUCATION

Anthropic – Claude Certified Architect – Foundations Certification | 2026
Hack Reactor – Advanced Software Engineering Immersive | Austin, TX – 2016
UW-Madison – MS Structural Engineering | Madison, WI – 2010
Tulane University – BS Civil Engineering — double major in Economics, minor in Math | New Orleans, LA – 2007