

Michael Dornic

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EDUCATION

University of Virginia, School of Engineering & Applied Science

August 2025 – May 2027

B.S. in Computer Science, Minor in Mathematics | GPA: 3.4

Charlottesville, VA

Relevant Coursework: Data Structures & Algorithms I & II, Computer Systems & Organization I, Software Development, Discrete Mathematics, Probability, Linear Algebra, Abstract Algebra, Calculus I–III.

EXPERIENCE

Software Engineering Intern, Oaklet (Backed by Y Combinator)

May 2026 – Present

Direct-to-Patient Intake and Clinical EHR Platform

- Shipped the white-label intake platform that allows patients to complete medical intake and pay for a prescription directly from a manufacturer's own branded site, currently used by two Fortune 500 pharma manufacturers and 122 doctors across 50 states.

Autonomous Agentic GTM System

- Architected and shipped an autonomous, multi-agent system driving fully hands-off, hyper-targeted email and LinkedIn outreach to U.S. pharma manufacturers: five Claude (Anthropic) agents, each built to run as a scheduled job on an edge NVIDIA Jetson Orin Nano (ARM64) and coordinate asynchronously through a shared CRM.
- Designed and built a fleet of MCP servers (MCP TypeScript SDK, Zod) — `crm-mcp`, `email-mcp`, `proposal-mcp`, and `nadac-mcp` — giving each agent scoped, least-privilege access to CRM, email, PDF rendering, and drug-pricing tools.
- Built the autonomous email Sender on AWS SES, sending personalized, dossier-driven outreach with attached PDF proposals and a Lambda bounce handler that automatically suppresses bounced and flagged addresses.
- Built the Drug Research agent, which combines public drug-pricing and FDA data with web research to generate per-drug proposals that render to PDF and store in a private AWS S3 bucket behind short-lived presigned URLs.

Internal CRM

- Built the internal CRM and agent-coordination layer: a TypeScript monorepo with a NestJS REST API on AWS DynamoDB and a React + Vite analytics dashboard.
- Implemented AWS Cognito machine-to-machine auth (client-credentials, JWKS-verified JWTs), audit logging, lead suppression, and full-text search across companies, drugs, and leads.

Directed Reading Program, University of Virginia

August 2025 – January 2026

- Completed a faculty-mentored project on Markov Chains and the Metropolis–Hastings algorithm (invariant distributions, ergodicity, long-run MCMC convergence); presented to the UVA Mathematics Department on how MCMC sampling underpins probabilistic modeling in modern ML/AI.

PROJECTS

ForgeBot — Startup Creator via Photo Upload

forgebot.co • Next.js, TypeScript, React, Supabase, Stripe, Anthropic SDK

- Built and shipped a full-stack AI web application that turns a photographed object into a startup concept, a live-streamed custom landing page, and a multi-channel marketing campaign.
- Engineered a four-stage agentic pipeline (vision → ideation → landing page → marketing) on the Anthropic SDK, streaming model output to the browser through a ReadableStream for sub-second perceived latency.
- Architected the Next.js 14 + TypeScript + React 18 stack end-to-end: Google OAuth via Supabase, Postgres with row-level security, Stripe Checkout + webhooks for usage-based billing, and Vercel deployment — all inside a 24-hour window.

OppenHealth — Full-Stack Health Analytics Application

openhealth.com • Node.js, Express, Supabase, WHOOP API, OAuth 2.0, Vercel

- Built a full-stack health analytics application with secure account creation, authenticated login, and a personalized health dashboard.
- Designed and deployed the REST API and Postgres data layer for user management and secure storage of credentials and biometric records, with custom-domain routing and DNS.
- Integrated the WHOOP API over OAuth 2.0 to ingest real-time fitness and recovery data (HRV, strain, sleep, workouts), normalized into a longitudinal time-series for analytics.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Python, SQL, HTML5, CSS, Lean 4, LaTeX

Frameworks & Libraries: React, Next.js, NestJS, Node.js, Express, Vite, Tailwind CSS, Radix UI, Zod

Cloud & AWS: DynamoDB, S3, SES, Cognito (M2M / JWT), Lambda, SNS, App Runner, Amplify, STS; Vercel, Supabase (Postgres)

AI & Agents: MCP, Anthropic Claude SDK, multi-agent / blackboard architecture, OSINT enrichment

Platforms & APIs: Git, GitHub, Stripe API, Google OAuth, PostHog, Resend, Postman

Concepts: REST API Design, OAuth 2.0 / client-credentials, JWT/JWKS, Cron scheduling, Edge deployment, CI/CD, Responsive UI

Spoken Languages: French (Fluent), Russian (Intermediate-High)

Interests: UPSL (Semi-Pro) Soccer, Running, Piano, Speed typing (230 WPM)