Mohamed Datt

Full-Stack AI Engineer & Spatial Web Architect

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PROFESSIONAL SUMMARY (MASTER 2026–2027 EDITION)

Full-Stack & AI Engineer (3.8 GPA, 1st Place Internship Winner, 2 commercial SaaS sales) with 50+ repositories spanning Next.js 16, React 19, Three.js WebGL, Drizzle/PostgreSQL, Gemini multimodal agents, Flutter mobile, and ODU R1 Edge-AI research.

TECHNICAL STACK

Frontend & 3D:	Next.js 16 • React 19 • TypeScript • Three.js / R3F • Tailwind CSS v4
Backend & DB:	PostgreSQL • Drizzle ORM • Supabase RLS • Node.js • Stripe & Resend
AI & Systems:	Google @google/genai • Voice Agents • Python / PyTorch • Flutter / Dart • C++

EXPERIENCE & RESEARCH

Undergraduate Edge-AI Researcher & Systems Builder 2025 – Present
ODU Hands-On Lab (Prof. Ajay K. Gupta) • Norfolk, VA

- Engineered NeuroShield-ADRD, a 10Hz real-time EDA/PPG + UWB spatial telemetry demonstrator predicting dementia agitation 20 minutes pre-crisis.
- Built VocalPulse-Edge contactless facial video rPPG prototype achieving ±1.5 BPM parity with WearOS smartwatches and contributing to 10 NIH/NSF grant proposals.

Independent Full-Stack & AI SaaS Founder 2024 – Present
Commercial Client Acquisitions & Open Source • Norfolk, VA

- Built and sold 2 commercial web/SaaS platforms including InterviewPrep AI (Vapi voice mock interviews, Gemini feedback, PostgreSQL & PayPal).
- Architected ResumeForge AI (Next.js 16 + Flutter mobile + Stripe) and AuditPulse AI / SEOSPACE (Puppeteer SEO crawler + Gemini audit engine).

Software Developer Intern (1st Place / 13 Teams) Sep 2024 – Dec 2024
Product Manager Accelerator • Norfolk, VA

- Led full-stack development of EduSphere AI using Next.js, TypeScript, Supabase RLS, Gemini & Hugging Face APIs, winning 1st Place out of 13 competing teams.
- Delivered multi-tenant authentication, AI academic workflows, and responsive Tailwind architecture ahead of schedule.

SELECTED FLAGSHIP BUILDS & ACQUISITIONS

ResumeForge AI + Mobile
Next.js 16 • Flutter/Dart • Gemini API • Stripe • dnd-kit

- Cross-platform web & mobile resume builder featuring drag-and-drop editing, ATS match scoring, and server-side PDF/DOCX export.

AuditPulse AI (SEOSPACE)
Next.js 15 • TypeScript • Puppeteer • PostgreSQL • Gemini

- Automated headless technical SEO & AI-search readiness crawler generating executive DOCX/PDF remediation reports.

NeuroShield-ADRD & VocalPulse-Edge (ODU Lab)
Node.js 10Hz Telemetry • Python • WebSockets • D3.js

- Real-time multimodal dementia agitation prediction and contactless webcam rPPG vitals matching WearOS within ±1.5 BPM.

EDUCATION

B.S. in Computer Science — Old Dominion University (Norfolk, VA) Jan 2025 – Present
Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Computer Architecture, C++, Software Engineering.

A.S. in Computer Science (3.8 GPA • Dean's List) — Tidewater Community College (Norfolk, VA) Sep 2022 – Dec 2024
Honors: 3.8 GPA, Dean's List, 1st Place Fall 2024 Internship Competition.