Mohammed Omar Siddiqui

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Summary

Full-stack engineer with close to four years building enterprise data products used by SAP, Microsoft and HP. Strongest in data-visualization frontend — built a production D3.js dashboard end to end as sole frontend developer — with working backend range across Node.js, Django REST Framework, PostgreSQL and Elasticsearch. M.S. Computer Science, UAB (GPA 3.80).

Skills

- **Frontend:** TypeScript, JavaScript, Vue.js (Vue 3), Angular 15, D3.js, HTML5, CSS, Kendo UI, Next.js
- **Backend & Data:** Node.js, Python, Django REST Framework, PostgreSQL, Elasticsearch, SQL, REST APIs, OpenAPI
- **Cloud & Infrastructure:** AWS (ECS Fargate, ECR, RDS, S3, VPC, IAM, ALB, SSM, EC2), Terraform, Docker, GitHub Actions CI/CD, Nginx, Render, Git, Figma
- **AI/ML (project scope):** Retrieval-Augmented Generation, embeddings, vector search — LangChain, Chroma, Mistral 7B, Streamlit; Cursor and Claude Code.
- **Familiar:** Java, C, Flutter/Dart

Experience

- **Attenax LLC** — Birmingham, AL
  Founder & Software Engineer — *Jul 2026 – Present*
  - **Client Web Development**: Registered practice building web and mobile products for small businesses — scoping, delivery, deployment and client communication. Shipped and maintain a production marketing site for a Birmingham restaurant, now rebuilding it in Next.js with an indexable HTML menu, LocalBusiness structured data and optimized media in place of a PDF-only menu.
  - **Mobile Product**: Building Tazkeer, a Flutter/Dart Android app for the Muslim community — prayer tracking with customizable home-screen widgets; in internal testing ahead of Play Store release.
- **SG Analytics** — Hyderabad, India
  Senior Software Engineer — *Apr 2024 – Jul 2024*
  Software Engineer — *Jun 2021 – Apr 2024*
  Software Engineering Intern — *Nov 2020 – May 2021*
  - **Automation — 99% Time Reduction**: A Chrome extension 50 analysts relied on had been out of service for months, with reviews collected by hand at 20–40 minutes per page. I traced the failure to G2 and Gartner redesigns invalidating its jQuery selectors, rebuilt it from scratch in vanilla JS, and restored one-click collection.
  - **Data Visualization — Sole Frontend Owner**: Built the entire frontend for Customer Adoption Trends, a custom D3.js dashboard visualizing TAM/SAM and regional growth projections through an interactive map — no other developer touched it. Also built a bespoke gauge chart for the Voice-of-Customer product to match design spec exactly.
  - **Backend & Data Migration**: Built a Node.js pipeline migrating millions of records from acquired company Inrate into iNava's News module; moved processing from local runs to AWS EC2 after reliability failures, adding batched transactions and progress tracking so interrupted runs resume without restarting.
  - **Enterprise Product Delivery**: Built and maintained features across iNava's 5+ subscription products for SAP, Microsoft and HP — SAP the top client, with 40+ monthly active analysts. Consolidated Inrate's ESG ratings, previously scattered across many pages and tables, into one visual company-overview page. Borrowed regularly by the BNY Mellon team for time-sensitive pages and spikes, including an Elasticsearch evaluation of their public API.
  - **Engineering Practices & Mentorship**: Authored the team's PR contribution guidelines and branch naming conventions and updated its linting rules; reviewed frontend and backend PRs multiple times weekly as one of three most-tenured developers; onboarded 2 software developers and 2 data engineers, mentored an intern, and ran first-round technical screens. Awarded the company's GEM Award on manager nomination for consistently delivering complex work ahead of schedule.

Projects

- **Clinic Management Platform (Django REST + Vue.js)**: Healthcare platform for patient records, scheduling and admin workflows with D3.js dashboards. Re-architected to a decoupled frontend/backend after Vue-in-Django-templates proved unworkable. Deployed and operated by me across three environments: a self-managed Nginx VM with Heroku Postgres, then managed hosting, then a Dockerised build whose AWS infrastructure I provisioned with Terraform (VPC, ECS Fargate, ALB, RDS, S3, IAM, SSM) plus a GitHub Actions pipeline to ECR. Demo video.
- **UAB Admissions Chatbot (RAG + Vector Search)**: RAG chatbot prototype using LangChain, Chroma and Mistral 7B with a Streamlit frontend to answer admissions questions; pitched to INTO UAB's admissions team as a way to reduce repeat student inquiries.

Education

M.S. Computer Science, University of Alabama at Birmingham — GPA 3.80, Aug 2024 to May 2026. Graduate Teaching Assistant for Algorithms and Data Structures (CS 303), Spring 2025: authored exam questions, ran weekly labs and office hours.

B.Tech. Electrical Engineering, Jamia Millia Islamia, New Delhi — Aug 2015 to Jun 2019. **Publication:** Ansari, Aziz, Siddiqui et al. (2020), "Analysis of Political Sentiment Orientations on Twitter," *Procedia Computer Science*, 167.