Mohammed Nauman Siddique

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Summary

Engineering leader with 9+ years of experience scaling multi-tenant SaaS platforms, architecting distributed systems, and driving backend technical strategy. Delivers measurable improvements in performance, reliability, data modeling, and engineering execution across cross-functional teams.

Skills

- **Languages:** Python, JavaScript, Java, C++, C
- **Backend & Frameworks:** Flask, Django, FastAPI, Quart, Celery
- **Cloud & DevOps:** AWS, Docker, GitHub Actions, Terraform
- **Databases & Messaging:** PostgreSQL, MySQL, MongoDB, Redis, ActiveMQ, RabbitMQ

Professional Experience

Lead Engineer, *Classranked LLC* **Salt Lake City, UT** *10/2024 - present*

- Scaled the platform from 4 to 50 institutions, owning backend architecture strategy and enabling reliable performance for 100k+ students.
- Designed microservice-based components to isolate critical workflows and improve service resiliency during peak evaluation loads—raising student survey completion rates from under 40% to over 60%.
- Built attribute-based analytics capabilities that reduced reliance on external BI tools by 70%+ and improved institutional reporting depth.
- Led AI-driven reporting initiatives by integrating LLM-powered qualitative analysis into institutional reports and initiating development of data-accessible chatbots to enable conversational exploration of evaluation insights.
- As the team's technical lead, coordinated roadmap priorities with product and mentored engineers, delivering two major releases across consecutive semester cycles with all committed features shipped.

Software Engineer →Senior Software Engineer, *Classranked LLC* **Salt Lake City, UT** *03/2022 - 09/2024*

- Led EC2-based pilots across 5 institutions, delivering zero-downtime evaluation cycles with reliable reporting—converting 4 into full-time paying customers.
- Re-architected multi-tenant AWS infrastructure using Terraform to enable secure self-service onboarding—reducing effort by 60% and meeting HECVAT requirements for broader adoption.
- Built a fine-grained RBAC/ABAC system enabling feature-level access control for surveys, reporting, and setup—meeting R1 institutional governance needs and surpassing industry-leading platforms.
- Reduced page-load latency by 45% by optimizing high-traffic queries, implementing effective caching and eviction policies, and upgrading supporting infrastructure to improve overall system responsiveness.
- Designed and built the end-to-end "15-minute or less" institutional survey-setup feature—adding auto-syncing, reusable term-over-term settings, and guided workflows that reduced manual setup effort from 1–2 days to under 15 minutes.
- Added a flexible data-ingestion framework allowing institutions to upload CSVs or fetch API data and map it to our models—supporting diverse data structures and reducing implementation effort by 50%.

Research Assistant (WS-DL Lab), *Old Dominion University* **Norfolk, VA** *08/2017 - 12/2021*

- Developed ML models and interactive D3 visualizations for analyzing deleted Congressional tweets using historical web archives, supporting peer-reviewed research and academic presentations.
- Released multiple open-source tools—including a tweet-timestamp estimator and a congressional-handle extraction library that tracks handle changes, replacements, and midterm transitions—enabling researchers to build accurate longitudinal datasets for political communication analysis.

Education

MS Project Management *University of Cumberlands* **Williamsburg, KY** *Jan 2025 – Present*

MS Computer Science *Old Dominion University* **Norfolk, VA** *Dec 2021*

B.Tech Computer Engineering *Jamia Millia Islamia* **New Delhi, India** *July 2014*