

Mohammed Nauman Siddique

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Summary

Dynamic and results-oriented professional with 9.5 years of experience in software development. Proficient in web development, data science, and visualizations, with a focus on Python, AWS, and Agile methodologies. Expertise includes designing AWS infrastructure and leading backend teams to ensure alignment with strategic goals. Adept at fostering collaboration and communication within teams, enhancing productivity and cohesion.

Skills

- **Languages/ Frameworks:** Python, JavaScript, Java, C++, C, Flask, Django, Quart
- **DevOps & Cloud:** AWS, Docker, GitHub CI/CD, Terraform
- **Data Science & Visualization:** Elastic Search, Tableau, R, NumPy, Pandas, D3.js
- **Data Management & Messaging:** SQLAlchemy, MySQL, MongoDB, PostGreSQL, Redis, ActiveMQ

Professional Experience

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

- Currently lead project planning, set product roadmaps, and oversee backend development to align with strategic goals.
- Maintained comprehensive documentation, enhancing cross-team collaboration and communication.
- *Technology Stack: Python, MySQL, Flask, Quart, SQLAlchemy, AWS, Terraform, GitHub CI/CD, Celery, Redis, RBAC, ABAC, Unit Testing, System Design, Marshmallow, Micro-Service Architecture, ActiveMQ*

Senior Software Engineer, Classranked LLC **Salt Lake City, UT** 05/2023 - 09/2024

- Designed and implemented a multi-tenant AWS infrastructure, transitioning the product to a SaaS solution.
- Developed user-based roles and permissions, restricting access based on user type and roles.
- Implemented Redis caching and database indexes, setting maximum page load time to less than 3 seconds

Software Engineer, Classranked LLC **Salt Lake City, UT** 03/2022 - 05/2023

- Led backend API development and set up AWS EC2 solutions with alarms, leading to four successful major pilots within a year and ensuring zero downtime.
- Migrated all APIs to use SQLAlchemy and Marshmallow, transitioning from socket-based database communications.

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

- Aggregated and analyzed 115th Congressional deleted tweets, developing a comprehensive model to analyze the differences between live and deleted tweets.
- Created a social media popularity visualization tool using web archives, providing insights into social media trends, and used it to measure the popularity of 2020 Democratic Presidential nominees.
- Released a service to estimate tweet timestamps and a Python library for historical Twitter data, enabling the estimation of timestamps for deleted tweets, which helps in finding those tweets in the web archives.
- *Technology Stack: Python, MongoDB, Java Script, R, Docker, d3.js, node.js, Pipe and Filter Architecture*

Education

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

Relevant Courses: Information Visualization, Information Retrieval, Web Server Design, Machine Learning, Natural Language Processing, DevOps, Containers & Cloud IP, Big Data, Database Concepts

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

Awards & Talks

- Judge for Senior Research Project Evaluation, CS Department, ODU, Norfolk, USA (Mar. 2018 and July 2021)
- Judge for Undergraduate Raspberry PI Contest, CS Department, ODU, Norfolk, USA (Oct. 2020)
- Talk on Congressional Deleted Tweets, Simon Fraser University, Vancouver, Canada (Nov. 2018)