

Nouman Syed

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EXPERIENCE

Software Engineer

July, 2024 – Present

RecruitEye

Remote, USA

- Led the development lifecycle of 5 core services for the AI job-board platform, making architectural, design, and development decisions. Collaborated with cross-functional teams to enhance system performance and efficiency.
- Developed AI-powered Resume and Cover Letter Generation services with 25+ dynamic, ATS-friendly LaTeX templates. Used LLMs with LangChain for resume parsing and data extraction, content creation, job-specific customization. Implemented CloudFront to cache PDFs, reducing latency by 70%, and integrated S3 for storage.
- Constructed an ETL pipeline to ingest 6.1 million daily job postings. Optimized MongoDB Atlas with partitioned collections to enhance query performance and scaling, reducing manual intervention by 95%.
- Engineered robust architecture for the pipeline using Lambda, S3, and a dedicated MongoDB cluster, achieving 99.9% uptime and reliability across workflows by aligning uptime with fault-tolerant workflows. Leveraged AWS Step Functions and CloudWatch for comprehensive monitoring, automatic retries, and seamless error handling.
- Streamlined job data operations with Go, using goroutines for concurrent bulk updates and partitioned MongoDB collections, enabling over 300K+ daily job updates in under 10 minutes and peak memory usage below 1GB.

Graduate Course Assistant

May, 2023 – May, 2024

Stevens Institute of Technology

Hoboken, NJ

- Automated grading using Node.js, Puppeteer, Axios, and MongoDB, efficiently handling 250 submissions weekly.
- Engineered a custom Typescript-based assertion library to integrate with grading scripts.
- Reduced grading time from 100+ hours to a few minutes by integrating Canvas API with the grading solution.
- Provided student support through Office Hours and Slack, addressing course-related inquiries.

Software Engineer

Apr, 2022 – Nov, 2022

CodeKindle

Hyderabad, India

- Collaborated in the development of a Employee Experience Platform, supporting feedback submissions, pulse surveys, and anonymous Q&A, enabling over 12,000 employees to engage continuously.
- Designed and implemented highly customizable survey templates with dynamic question branching using React. Integrated D3.js to build interactive dashboards with comparative analytics, increasing usage by 45%.
- Architected a microservice backend with Node.js, Express, and RabbitMQ, ensuring seamless communication across services. Utilized PostgreSQL and Redis caching, achieving a P95 response time of 950ms.
- Conducted integration and E2E tests with Jest, and Cypress, achieving 99% code coverage and robust stability.

PROJECTS

EchoLab | *MongoDB Atlas, Node.js, Express, Docker, Socket.io, React, Redis, AWS, Agora*

- Developed a web-based collaborative code editor that supports 5 programming languages using a microservice architecture with Node.js backend, React frontend and an Agora service for managing Audio Chat.
- Managed user data seamlessly through Express APIs and optimized data storage using a MongoDB Atlas cluster.
- Deployed code execution service on EC2 with Docker Daemon and pre-built DockerHub images.
- Integrated security features, like Docker CPU/mem limits, rate-limiting, JWT authentication, XSS prevention.
- Deployed all services using AWS EC2 servers, ensuring efficient scalability and management.

EDUCATION

Stevens Institute of Technology

Jan, 2023 – May, 2024

Master of Science, Computer Science (GPA: 3.7)

Hoboken, NJ

Mahatma Gandhi Institute of Technology

July, 2018 – Aug, 2022

Bachelor of Technology, Computer Science and Engineering

Hyderabad, India

SKILLS

Languages: JavaScript, Python, Go, SQL, TypeScript, Java, C, PHP

Frameworks and Libraries: Node.js, JSDocs, React, GraphQL, Socket.io, Angular, ASP.Net, Apollo, Express, Flask, SpringBoot, Hibernate, Handlebars, PyTest, Jest, NextJS, TailwindCSS

Other Tools: Vim, VSCode, Git, Github, Docker, PostgreSQL, Redis, MongoDB, CircleCI, GH Workflows, AWS (EC2, Lambdas, S3), Terraform, Jenkins, Jira, Hadoop, Postman, TypeORM

Other Skills: OOD, MVC, Microservices, Rest APIs, Agile methodologies (Scrum, Kanban, Lean, etc), Office Suite.