

Niraj Zade

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Immediate Joiner

SUMMARY

I'm a product-minded **Software Engineer**, **AWS SAA Certified**, with **2.5 years of experience**.

In the past, I have also led a community project with around 1200 users and 10 beta testers. Projects I've worked on include - Enterprise PaaS built on AWS, IoT Data Acquisition Platform on AWS, MIS system for a healthcare provider.

SKILLS

- **Languages:** Python, SQL, Bash
- **Cloud:** AWS - RDS, Cognito, Lambda, EC2, EKS, ECS, S3 etc
- **Frameworks:** Django, Flask, Celery
- **Databases/Storages:** PostgreSQL, Redis, RabbitMQ
- **DevOps:** Docker, Docker Compose, Git, AWS, CICD
- **Operating Systems:** Linux (Ubuntu, Debian)

CERTIFICATES

- AWS - Solutions Architect Associate

EXPERIENCE

Senior Engineer — **Konverge.AI** — Pune, Remote

July 2022 - Sept 2023

Led the port of an enterprise PaaS to AWS, using managed services (Data Science and Machine Learning development & deployment platform).

- Designed system architecture using managed AWS services.
- Implemented microservices for programmatic generation and operation of per-tenant infrastructure modules using AWS Boto3 SDK (code repositories, build pipelines, k8s service deployments etc).
- Integrated authentication, by integrating Cognito with the bespoke API Gateway.
- Packaged the microservices into docker images, for deployment onto EKS.

Horizontally scaled a Gen-AI service.

- Designed a queue based architecture to scale a heavy Gen-AI service that was failing under traffic spikes.
- Used queues to convert the system from push-based to pull-based, to buffer tasks during traffic spikes while the AWS autoscaler kicked in.

Software Engineer — **DecisivEdge** — Pune

Jan 2018 - March 2019

Our team built Management Information Systems for a healthcare company.

- Developed algorithms, data schema, and API endpoints for a cross-facility staff & personnel scheduling module.
- Developed API endpoints and user-interface for the real-time facility monitoring dashboard used by executives and staff.
- Implemented a daily notification system (SMS), with robust resume-on-failure support using database based queues.
- Created an in-browser SQL workbench, to debug deployments in the staging environment through the browser itself. Implemented safeguards to block DML and DDL queries.

- Heavily optimized SQL queries throughout the project, reducing execution times from minutes to seconds, using a combination of indexing and better queries.
- Wrote the internal libraries used across the microservices, to handle functionalities such as - logging, database transaction management, pdf generation etc.

PROJECTS

IoT Data Acquisition & Device Control Platform — Software Engineer 2023 - 2024

- Designed a startup's AWS service architecture and API endpoints for a high-velocity low-volume data acquisition system, with support for a real-time dashboard.
- Currently running in production, at scale (pilot phase).

Custom ROM for LG Optimus Me (Non-commercial) — Software Engineer 2011 - 2013

- Optimized the operating system (schedulers, ram managers) and system apps to get maximum performance out of the extremely limited hardware.
- Had around 1200 users and 10 beta testers.

Engineering Blog - theniraj.com 2023 - present

- A website to share learnings and resources with other engineers.

EDUCATION

Autodidact — Computer Science May 2019 – May 2022

Full-time self education. Created a well-rounded curriculum centered around computer science, with a mix of economics and product development.

Yeshwantrao Chavan College of Engineering 2014– 2017

B.E. Electronics And Telecommunication — GPA - 7.49/10

ENDORSEMENTS

“Niraj is great contributor for the projects he has worked. He is really good in a structural way of solving and finding solution for any specific problem. He has well written codes which are very generic and well structured. The level of capability he has shown in his tenure of 1.2 years is impeccable. He is aware of all technology trends in industry. I wish him all the best for future endeavors, and he can contribute something great in the field of Computer Science”

- **Uttanka Hazarika, Development Manager at DecisivEdge**