NILOTPAL BOSE

DevOps / SRE Engineer

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SUMMARY

SRE and DevOps Engineer with 7+ years of experience, currently driving reliability and automation in production environments using AWS infrastructure, CI/CD pipelines, Prometheus/Grafana monitoring, and SRE practices like SLIs/SLOs.

Previously a Fullstack Developer, proficient in Python (Django/Flask) and JavaScript frameworks (React/Node.js), delivering end-to-end web solutions from UI/UX to backend APIs, testing, debugging, and deployments.

EDUCATION

Ural Federal University, Yekaterinburg, Russia,   2025 – Present
Masters of Science (M.Sc.) - Practical Artificial Intelligence

Ural Federal University, Yekaterinburg, Russia,   2024 – 2025
Russian Language

Maulana Abul Kalam Azad University of Technology,   2020 – 2022
Kolkata, India,
Master of Science (M.Sc.) - Computer Science Engineering

Maulana Abul Kalam Azad University of Technology,   2015 – 2018
Kolkata, India, *Bachelor of Computer Applications - BCA(H)*

EXPERIENCE

Cloudial Inc., *DevOps Engineer*   08/2025 – Present | Israel

In my current SRE and DevOps role, I develop and maintain fullstack web applications using Next.js for both frontend UI and backend API routes, while deploying them on AWS EC2 with Apache2 for scalable, high-availability environments. I design and manage PostgreSQL databases, integrate AWS Secrets Manager for secure credential handling, and implement monitoring with Grafana/Loki for logs and Grafana/Prometheus for metrics to ensure observability and proactive issue resolution.

I lead automated testing strategies—including unit, integration, and end-to-end tests—alongside CI/CD pipelines to maintain code quality, stability, and efficient developer workflows throughout the lifecycle.

Key Responsibilities

• Build and maintain fullstack applications with Next.js, deployed on AWS EC2 using Apache2.

• Design and optimize PostgreSQL schemas/queries, with AWS Secrets Manager for secure data management.

• Implement monitoring stacks: Grafana/Loki for logging and Grafana/Prometheus for metrics and alerts.

• Write and maintain comprehensive automated test coverage across unit, integration, and E2E levels.

• Collaborate with cross-functional teams to deliver features, improve performance, reliability, and workflows.

150x Software Solutions, *Senior Javascript Engineer*   01/2025 – 08/2025 | Russia

Responsible for developing and maintaining scalable web applications using Node.js, React, and TypeScript. Work extensively with GraphQL to optimize API performance and enable efficient data fetching.

- In my role, I am responsible for the following key tasks:

• Design and Develop Scalable Web Applications - Lead the development and maintenance of robust, scalable, and high-performance web applications using modern technologies, primarily Node.js for backend services and React with TypeScript for frontend interfaces.

• Efficient API Development with GraphQL - Utilize GraphQL to design and implement flexible, efficient APIs that allow for precise data fetching, reducing over-fetching and under-fetching issues common with RESTful APIs.

• End-to-End Feature Implementation - Take ownership of full-stack features from concept to deployment, including database modeling, API layer design, frontend UI development, and integration testing to ensure seamless user experiences.

• Performance Optimization and Code Quality - Continuously monitor and optimize application performance, refactor code for maintainability, and enforce coding standards using tools like ESLint, Prettier, and TypeScript's static type checking.

Aquarious Technology Pvt Ltd., *Full Stack Developer*   02/2023 – 12/2024 | India

Working as a Full Stack Developer, responsible for solving critical business requirements. Having a profound experience in Web Application Development in both Python and JavaScript frameworks. Familiar with handling production bug tickets with working on tools such as Monday Board and Trello.

My role includes being:

- Responsible for developing RESTful APIs in FastAPI and Express JS.

- Worked on MongoDB using Mongoose Object Data Modeling (ODM) and MySQL using Sequelize ORM.

- Developed functionalities and integrated RESTful APIs for UI's built in React JS.

- Implemented and optimized application using Redux state management solution.

- Accountable for debugging and solving the defects arising in the application.

- Responsible for automating and creating pipelines for deployments on AWS Elastic Cloud instances using apache2 server.

Tecsn solutions, *Full Stack Developer*   01/2020 – 02/2023 | India

Working as a Full Stack Developer, responsible for full lifecycle developments. Having a profound experience in Web Application Development in both Python and JavaScript frameworks. Familiar with handling full software development lifecycles with and working on tools such as Trello.

My role includes being:

- Responsible for developing RESTful APIs in Python Django REST Framework, NEST JS and Express JS.

- Worked on MongoDB using Mongoose Object Data Modeling (ODM) and MySQL using Django's Object Relational Mapper (ORM).

- Developed functionalities for Ul's built-in React JS, NEXT JS along with ANTUI and Material UI Library.

- Implemented and optimized application using Redux state management solution.

- Accountable for debugging and solving the defects arising in the application.

- Responsible for deployments on AWS Elastic Cloud instances via apache2 and nginx.

Tata Consultancy Services, *Programmer*   07/2018 – 01/2020 | India

Working as a Programmer, responsible for solving critical business requirements. Having a profound experience in Web Application Development in Python framework. Familiar with handling Incidents, Work Orders, and Problem Tickets in the production environment by working on tools such as BMC.

My role includes being:

- Responsible for developing RESTful APIs in Python Django REST Framework.

- Worked with MySQL using Django's Object Relational Mapper (ORM).

- Tested and resolved defects arising in the APIs.

- Integrating APIs with UI developed in React JS.

SKILLS

Python, Object-Relational Mapping (ORM), Django REST Framework, Postman, React.js, Django, IndexedDB, Webrtc, Sequelize.js, SQL, Express.js, Node.js, MongoDB, Mongoose ODM, Amazon EC2, Socket.io, Redux, JavaScript

LANGUAGES

English	● ● ● ● ○	Russian	● ● ○ ○ ○
Bengali	● ● ● ● ●		

DECLARATION

I hereby declare that the above information is true to the best of my knowledge.