

SHUBHAM LAD

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TECHNICAL SKILLS

Languages: TypeScript, Python, C#, Go.

Technologies/Frameworks: AWS, NodeJS, GraphQL, Serverless, MongoDB, MySQL, PostgreSQL, ElasticSearch, Docker, Linux, React, Angular, React-Native, Jira, Git, Agile, AWS services (Kinesis, Glue, Redshift, AppSync, Lambda, Codebuild, ECS, RDS)

EXPERIENCE

Softway

September 2022 – present

Software Engineer II

Bengaluru, Karnataka

Project: Data-Intensive Platform (Backend Engineer)

- Upgraded backend infrastructure from Node.js 14 to Node.js 20, implementing performance improvements that increased application efficiency.
- Engineered backend solutions using Node.js and Python, leveraging Serverless Lambda and GraphQL to handle complex data processing and queries.
- Managed AWS RDS Aurora databases, handling millions of rows and ensuring high availability and performance.
- Worked with AWS AppSync and API Gateway to implement robust GraphQL endpoints, enhancing data accessibility and system reliability.
- Developed and maintained an ETL data pipeline processing terabytes of data using AWS Kinesis, Glue, S3, Redshift, ECS, and Lambda, ensuring efficient data flow and storage.
- Designed and implemented algorithms for data processing from data warehouses, generating reports for analytical purposes.
- Set up and maintained infrastructure for development environments, including AWS CodePipeline, RDS databases, and VPC configurations, streamlining the development process.
- Contributed to DevOps initiatives, introducing best practices that improved deployment times and system stability.
- Modified and managed open-source plugins for Serverless framework to meet project-specific requirements, maintaining internal tools for ongoing project needs.
- Reduced deployment time from 30 minutes to 8 minutes by optimizing Webpack bundling, parallelizing tasks, and refining the AWS CodeBuild pipeline. Utilized advanced techniques such as tree shaking, code splitting, and custom build scripts to streamline the build process and improve overall deployment efficiency.

Project: Educational Platform (Frontend Developer)

- Developed and maintained frontend features using Angular, enhancing user experience and application performance.
- Led MongoDB database optimization tasks, including schema restructuring and query performance enhancements, resulting in improved data retrieval times by 30%.
- Collaborated on backend API development using .NET, delivering critical functionalities and ensuring seamless data flow between frontend and backend systems.

Quoality

October 2020 – September 2022

Full-Stack Developer

Gurugram, Haryana

- Led the development of a regional airline booking system, overseeing requirement gathering, analysis, design, development, and testing.
- Optimized ElasticSearch indexing, reducing total shards by 90% and increasing overall performance by 50%.
- Refactored code and introduced LazyLoad to improve web application page performance by 30%.
- Migrated production data from ElasticSearch DB on GCP to OpenSearch on AWS, ensuring seamless transition.
- Developed Access Control Lists (ACL) Module for our product to enhance security and user permissions management.
- Created the backend for a hostel chain CMS from scratch using GraphQL, demonstrating full project ownership.
- Engineered Amadeus and Sabre connectors for a flight booking agency utilizing TypeScript.
- Designed and implemented a scalable, secure backend and multi-layout frontend for an online education platform.

- Built the backend for a sports event organizing community app, integrating multiple functionalities.
- Integrated various payment gateways, ensuring smooth and secure transaction processes.
- Deployed projects to production on AWS, including database replication, load balancing, setting up VPC, availability zones, NAT, VPN, and CI/CD pipelines.
- Performed DevOps role and conducted code reviews for other developers.
- Mentored junior developers, fostering their growth and enhancing team capabilities.
- Leveraged Knowledge in AWS, TypeScript, SOAP, Elasticsearch, Docker, GraphQL, NextJS, Docker, Postman.

AYN Infotech Ltd.

March 2020 – October 2020

Software Developer

Pune, Maharashtra

- Developed the "Know Your Customer" (KYC) application, a secure and scalable banking domain product, resulting in improved customer verification processes and enhanced security measures.
- Created a Proof of Concept (POC) for a doctor appointment app using WebRTC and Mediaserver within 2 days, integrating real-time chat and file-sharing features, demonstrating rapid prototyping and agile development skills.
- Managed and executed all internal company deployments on Digital Ocean, ensuring high availability and reliability of services.
- Utilized a diverse tech stack, including NodeJS, JavaScript, REST APIs, MongoDB, PostgreSQL, React, Nginx, MVC, WebRTC, and WebSocket, to deliver robust and efficient solutions.

PROJECTS

OvenJoy - Web Framework for Bun | *TypeScript, BunJS*

- Developed OvenJoy, a lightweight and flexible web framework for Bun, implementing powerful routing and middleware capabilities similar to ExpressJS
- Implemented an advanced routing algorithm using a Radix tree router for efficient and optimized route matching, enhancing the performance of web applications.
- Conducted in-depth codebase analysis of ExpressJS and Fastify to understand their architecture, design patterns, and performance optimizations.
- Engineered an extensible middleware system, enabling easy integration of third-party libraries and custom middleware functions.

ACHIEVEMENTS / OTHER QUALITIES

- Achieved AWS Certified Solutions Architect – Associate, demonstrating expertise in designing and deploying scalable systems on AWS.
- Consistently recognized in Team Spotlight every month for outstanding performance, proactive initiatives, and timely delivery of sprints.
- Demonstrated ability to quickly learn and adapt to new technologies and processes, showing strong initiative and ownership in all assigned tasks.
- Proven problem solver with a track record of identifying and resolving complex issues efficiently and effectively.

EDUCATION

Shivaji University

Sep. 2016 – Oct 2019

Bachelor of Engineering (Mech.)

Ichalkaranji, Maharashtra