

HARSH MAKWANA

SENIOR SOFTWARE ENGINEER

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Results-driven Backend Engineer with 5+ years of experience in designing scalable, high-performance APIs and microservices. Expertise in Node.js, NestJS, GraphQL, AWS, and Web3, with a strong focus on low-latency systems, event-driven architecture, and DevOps automation. Passionate about building cloud-native applications and optimizing backend performance.

SKILLS

Programming Languages: TypeScript, JavaScript, SQL

Backend Development: Node.js, NestJS, Express.js, GraphQL, gRPC

Database & Caching: PostgreSQL, MongoDB, Redis

DevOps & Tools: Docker, Kubernetes, GitHub Actions, CircleCI, Prisma, TypeORM, RabbitMQ, BullMQ, Temporal

Cloud Platforms: AWS (EC2, ECS, S3, Lambda, CloudFront, SES)

Frontend Development: React, Angular, Electron.js

Testing & Quality: Jest, Locust, ESLint, Prettier

Web3 & Blockchain: Web3Auth

PROFESSIONAL EXPERIENCE

Simform Solutions, Ahmedabad, GJ

January 2023 - Present

Sr. Software Engineer - Full time

- Designed and optimized location-based GraphQL APIs using Apollo Server and NestJS, improving response times by **40%** for over **10,000+ concurrent users**
- Architected scalable microservices using **gRPC** and built custom **Temporal workflows**, increasing system reliability and communication efficiency across services
- Automated Electron.js app deployment with **CircleCI**, implementing release pipelines with approval workflows and multi-platform packaging distributed via **S3**
- Improved Electron desktop app performance by **reducing memory usage by 65%**, while integrating real-time notification systems using React
- Developed high-performance **payment processing** and **dynamic social card generation** services using cloud-native, event-driven architecture
- Refactored legacy real estate applications with scalable patterns and enforced clean code practices, improving maintainability and system stability

Tech Stack: NestJS, GraphQL, gRPC, PostgreSQL, Prisma, Redis, RabbitMQ, AWS (ECS, S3, CloudFront, CodePipeline), Docker, Electron.js, React, CircleCI

Simform Solutions, Ahmedabad, GJ

January 2020- December 2022

Software Engineer - Full time

- Built a custom Angular-based digital signage system, managing content delivery for **100+ concurrent**

displays with optimized rendering and caching

- Reduced API query response times by **75%** through efficient indexing and search-ranking improvements in a high-traffic application
- Automated infrastructure deployments using **AWS CodePipeline** and Elastic Beanstalk, decreasing deployment time by **60%**
- Mentored over **10 junior developers** on backend best practices, microservice architecture, and DevOps workflows
- Contributed to an open-source microservices boilerplate, which gained **200+ GitHub stars**, promoting clean architecture across projects

Tech Stack: Node.js, NestJS, Angular, TypeORM, Redis, PostgreSQL, AWS (Elastic Beanstalk, CodePipeline), Docker, Microservices

Simform Solutions, Ahmedabad, GJ

June 2019 - January 2020

Junior Software Engineer - Full time

- Developed a cross-platform employee management desktop application using **Electron.js** and **Angular**, improving employee productivity by **50%**
- Established standardized coding practices and documentation for desktop application teams, streamlining development collaboration
- Participated in organization-wide training on modern software development workflows, tools, and project methodologies

Tech Stack: Electron.js, Angular, TypeScript, Git, Jira, Zoho

EDUCATION

LDRP Institute of Technology & Research, Gandhinagar, GJ

August 2015 - June 2019

B.Tech in Computer Engineering

- Developed and deployed a full-stack educational portal using **PHP** and **Angular**, streamlining administrative workflows and increasing efficiency by **30%**
- Led the tech team for the institute's annual techfest; managed full-cycle web development and coordinated cross-functional team execution
- Completed coursework in **Data Structures, Algorithms, DBMS, Web Technologies, Software Engineering**
- Built academic projects including **Content Management Systems** and **EdTech Solutions**

Technical Projects: Content Management Systems, Educational Technology Solutions