

# Deepak Gaikwad

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**Principal Engineer with expertise in architectural design, cost optimization, and technology stack refinement. Proficient in Node.js and Angular programming for building scalable, efficient systems. Skilled in API design, microservices, and serverless solutions, with a focus on reducing operational costs and enhancing performance. Strong experience in GitHub Actions for CI/CD pipelines and seamless backend and frontend technologies integration to deliver robust, modern solutions.**

## Websites, Portfolios, Profiles

- <https://www.linkedin.com/in/deepakraog>
- <https://github.com/deepakraog>

## Skills

- Building design expertise
- Cost Optimization
- Experience with Rust development
- Proficient in TypeScript
- Angular
- Architectural design patterns expertise
- Scalable Systems
- Proficient in backend systems
- Experienced with Node.js frameworks
- GitHub Actions
- PostgreSQL
- Automated deployment processes

## Work History

### Principal Engineer

STEDI, California, USA

February 2024 - May 2025

- Designed scalable, cost-efficient architectures for micro-services and server-less solutions, reducing infrastructure spend by 28%.
- Optimised technology stacks to improve performance, cutting user-visible latency by 45%.
- Delivered APIs and backend services with NodeJs, TypeScript, and Rust, shipping 120+ endpoints.
- Modelled APIs with Smithy and JSON, reducing data-mapping defects by 80%.
- Built server-less micro-services on AWS (Lambda, API Gateway), handling 1.6M+ transactions per month.
- Automated CI/CD with GitHub Actions, increasing deployment frequency 5x.
- Developed responsive frontend with Angular and CSS, improving Lighthouse scores from 68 to 94.
- Designed and optimised PostgreSQL and DynamoDB, reducing complex query latency by 70%.

### Senior Software Engineer II

Cleo, Bengaluru, India

September 2017 - February 2024

- Coordinated across engineering to improve software-hardware interfaces, reducing integration cycle time by 31%.
- Built modular, API-centric infrastructure for scale, reducing run costs by 19%.
- Established test plans and automation, halving test cycle time.
- Partnered with peers to resolve integration issues, raising first-pass success to 89%.

- Delivered unit-tested systems on schedule, achieving 96% on-time delivery.
- Authored technical manuals and run-books, cutting onboarding time by 35%.
- Led a 12-person team with clear goals, improving delivery predictability to 86%.

## Software Engineer

*OnMobile Global, Bengaluru, India*

*December 2011 - September 2017*

- Research and Development which involved both developing and testing the client release tools.
- DB Optimization process for multiple telecom operators.
- Increased development speed by automating repetitive tasks using scripts and tools.

## Education

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VTU, SJCE at Bengaluru, India

**Bachelor of Science in Electronics And Communications** July 2008

## Certifications

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AWS Certified Solutions Architect – Associate

## Personal Information

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### Personal Interests

- Reading tech blogs and books on system architecture
- Books
- Numismatist
- Gaming - strategy and simulation genres
- Exploring emerging technology stacks and frameworks

## Core Competencies

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- **System Architecture:** Scalable Systems, Cost Optimization, Stack Refinement
- **Programming Languages:** Node.js, TypeScript, Rust
- **API Design:** RESTful APIs, Smithy OpenAPI spec, JSONata
- **Cloud Platforms & DevOps:** AWS (Lambda, API Gateway, SNS, S3, DynamoDB), GitHub Actions
- **Frontend Development:** Angular2, CSS, Bootstrap, Tailwind
- **Databases:** PostgreSQL, DynamoDB
- **Software Methodologies:** Microservices, Serverless, OOP, Design Patterns, Agile, CI/CD