

# ADARSH HEGDE

[Email](#) | [Website](#) | [GitHub](#) | [LinkedIn](#)

BENGALURU, KA

## EXPERIENCE

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Associate Software Engineer | *Saltside Technologies India Pvt Ltd*

*April 2023 - Present*

### Core Contributions

*Remote, Bengaluru*

- **Microservices Development:** Built and maintained **RESTful APIs** and **gRPC & Protobuf**-based microservices using **Go**, ensuring scalability and high performance.
- **Web:** Migrated modules from legacy Web Stack to ReactJS based PWA+SSR Hybrid codebase, optimised NodeJS based proxy server interacting with backend services.
- **Email Service:** Spearheaded a **Golang**-based email service featuring load balancing (SES/SendGrid), **Apache Kafka** for distributed event ingestion, and **SNS/SQS** with exponential backoff for retries. Integrated an HTML templating engine. Achieved \$900/month cost savings by optimizing SendGrid usage.
- **Scheduler Optimization:** Implemented a backoff strategy for a **Golang & MongoDB**-based scheduler, reducing job failures during peak loads.
- **RPC Migration:** Transitioned from **Apache Thrift** to **gRPC & Protobufs**, cutting service timeouts by **99%**, lowering memory usage, and improving latency.
- **Kubernetes Expertise:** Migrated developer environments from **docker-machine** to **Kubernetes**. Developed a **Golang CLI** for seamless Kubernetes interactions.
- **Docker Optimization:** Improved 20+ service Dockerfiles with multi-stage builds and caching, accelerating test environments and container deployments.
- **Performance Optimization:** Diagnosed and resolved **n+1 query** issues in **Ruby** services, significantly improving response times.
- **External Gateways:** Built **JSON-based API gateways** for internal **gRPC** service consumption.

### Recognitions

- Star of the Quarter Award, Q4 2024
- Star of the Quarter Award, Q2 2024

**Languages:** Go | JavaScript | TypeScript | Node.js | Python

**Backend & API:** RESTful API | gRPC | Protobuf | API Testing | API Gateway | Apache Kafka | Redis | MongoDB | MySQL

**Web:** React | Astro | SolidJS | NextJS

**DevOps & Cloud:** CI/CD | Docker | Kubernetes | ArgoCD | Ansible | AWS (S3, SES, SNS, SQS, RDS) | Distributed Systems | Automated Testing

## EDUCATION

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New Horizon College of Engineering | *GPA: 8.42 / 9.0*

*Aug 2023*

MCA | *Master of Computer Applications*

*Bengaluru, KA*

Bhandarkars' Arts & Science College, Kundapura | *GPA: 7.6 / 9.0*

*Sept 2021*

BCA | *Bachelor of Computer Applications*

*Udupi, KA*

## PROJECTS

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[Graph Algorithms Visualizer](#), [🔗](#)

*March 2023*

Created a web application using SolidJS to visualize graph algorithms such as DFS and BFS.

## INTERESTS

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### Blogging

- [My Homelab Setup - Home Automation & Self-Hosting](#)