ANISH HEGDE

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Technical Skills

Programming Languages : Python, JavaScript/TypeScript, Java, C/C++
Frontend: React, Next.js, Redux, HTML5, CSS, SASS, Tailwind
Backend : Node.js, Apache Kafka, GraphQL, REST, gRPC, NPM
Cloud & DevOps : Azure, Google Cloud Platform, Docker, CI/CD, Github Actions, NGINX, Terraform
Databases and tools : PL/SQL, SQL, MongoDb, ElasticSearch, Redis
Concepts : Microservices, GIT, Agile, Event driven Architecture, Test-Driven Development

Education

Khoury College Of Computer Science - Northeastern University	**Sep 2023 - Dec 2025**
Master of Science in Computer Science	*Boston,MA*
Manipal Institute Of Technology	**Aug 2016 - Jul 2020**
Bachelor of Technology in Information Technology	*Manipal,India*

Experience

Wave Life Sciences   **Jul 2024 - Dec 2024**
Software Developer(Co-op)   *Cambridge,MA*
- Enhanced researcher efficiency by 47% by developing UI in React for complex data visualization and interaction.
- Boosted application performance by 65% (targeting a reduction in load time from 10s to 3.5s) by implementing Redis caching and asynchronous programming patterns.
- Tasked with devising and implementing a robust data persistence strategy, integrating local storage with backend caching to ensure a fluid and uninterrupted user experience across multiple sessions.

Toddle   **Apr 2023 - Aug 2023**
Software Engineer Backend   *Remote,India*
- Expanded backend API capabilities by developing and deploying over 15 new GraphQL resolvers and mutations within an AWS Lambda-based serverless microservice architecture.
- Strengthened application security and protected critical data by implementing GraphQL Shield rules, engineering custom authorization for sensitive mutations, and resolving Dataloader caching vulnerabilities.
- Cut backend latency by 18% for critical data endpoints by analyzing query execution plans to identify bottlenecks, rewriting inefficient SQL queries, and implementing strategic database indexes.

Weekday (YC W21)   **Jun 2022 - Feb 2023**
FullStack Engineer   *Remote,India*
- Enhanced platform functionality by delivering multiple end-to-end features, which involved scoping requirements, developing REST APIs (Node.js, Express), and translating Figma mockups into scalable web applications.
- Reduced average time to hire candidates by 2 weeks (28%) by leading the development of a new candidate inbound sourcing strategy.
- Boosted candidate engagement and response rates by 25% by engineering a unified messaging system that consolidated communication over different channels into a single contextual view for recruiters.

Merkle   **Sep 2020 - May 2022**
Software Engineer   *Mumbai,India*
- Achieved $7,000 in monthly AWS EC2 and proxy cost savings by designing and implementing a high-volume NodeJS based web crawling microservice (processing 300,000 URLs daily from 110+ retailers) and re-architecting Kafka message consumption from a push to a pull-based model for improved performance.
- Resolved critical performance bottlenecks and stability issues, cutting CPU usage by 37% and eliminating 100% of message-related server crashes, by executing an architectural shift in Kafka consumption model.
- Reduced analyst workflow effort by 34% by conceptualizing and building an internal React-based Chrome Extension, streamlining data access and manipulation tasks.

Projects

AI Teaching Assistant bot   **Jan 2024 - Present**
NextJs, FastAPI, Cloud Run,Pub/Sub, LLM
- Engineered a scalable MLOps pipeline capable of processing videos of unlimited length, overcoming the previous 10-minute hard limit, by migrating the core workflow to an asynchronous, Pub/Sub-triggered architecture on GCP.
- Improved student comprehension and retention rates by 30% , engineering an innovative interactive chatbot service designed to enhance learner engagement with video lecture content.