

Abhinav Santhosh

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EDUCATION

The University of Texas at Dallas

Master of Science in Computer Science, GPA: 3.94/4.00

Richardson, TX

2025

National Institute of Technology Calicut

Bachelor of Technology in Mechanical Engineering, GPA: 3.90/4.00

India

2022

TECHNICAL SKILLS

Programming Languages: Java, C#, Python, SQL, JavaScript, TypeScript

Databases: MySQL, PostgreSQL, MongoDB

Frameworks & Libraries: Spring Boot, React.js, Express.js, .NET Core, GraphQL

Tools & Technologies: AWS, Git, Agile, Kafka, Hibernate, Microservices, JUnit, Docker, Kubernetes, Jenkins

EXPERIENCE

Software Developer

Aug. 2025 – Present

Center for BrainHealth

- Automated weekly processing of Zoom recordings using **AWS Lambda** and Amazon EventBridge, transferring files between S3 buckets and organizing them into a scalable folder structure.
- Replaced SMS-based nudges with app-based push notifications integrated with Contentful, improving user engagement and reducing costs by **\$4,000** per month.

Software Developer Intern

May 2025 – Aug. 2025

Paycom

- Led the development of a universal form-rendering platform that converted JSON configurations into reusable **React** forms, reducing development time by **20x** and accelerating feature delivery.
- Designed a rule-based system to dynamically serve form versions and validations based on user inputs (e.g., country/state), enabling flexible workflows and minimizing configuration duplication.
- Built an SSO-secured admin dashboard that allowed non-technical users to configure workflows, manage form logic, and assign forms, reducing manual setup effort by **60%**.

Software Developer Intern

Jan. 2025 – May 2025

Center for BrainHealth

- Implemented a **WebSocket** based system to deliver real-time scores back to external users as soon as they are available.
- Designed and implemented secure external APIs using **GraphQL** and REST, enabling third-party organizations to efficiently query and mutate platform data while minimizing over-fetching.

Software Developer

Dec. 2022 – Dec. 2023

Shiprocket Omuni Limited

- Maintained a large-scale e-commerce platform (nnnow.com) handling thousands of orders per day, with end-to-end workflows spanning warehouse operations, order processing, and shipment management.
- Developed **REST APIs** for an asynchronous upload feature using Spring Batch to process **100k** rows in 10 seconds.
- Improved query performance by **40%** by **denormalizing** two SQL tables into a single table, reducing complex joins and improving data retrieval efficiency.
- Upgraded a legacy **microservice** from Spring Boot 1.x to 2.7, refactoring APIs, adding database indexes, and strengthening test coverage with 500+ unit tests using JUnit5, resulting in a 10% reduction in API response times.

PROJECTS

Social Media Backend Platform | Spring Boot, JWT, PostgreSQL, Kafka, gRPC, Docker

June 2025

- Designed and developed a microservices-based backend for a social media platform supporting user authentication, post creation, and feed retrieval using REST and gRPC.
- Implemented event-driven workflows using Kafka for feed updates, notifications, and activity logging, improving system scalability and service decoupling.
- Secured all microservices using JWT-based authentication with centralized authorization at the API Gateway level.