

Abhinav Santhosh

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EDUCATION

The University of Texas at Dallas	Richardson, TX
<i>Master of Science in Computer Science, GPA: 3.94/4.00</i>	2025
National Institute of Technology Calicut	India
<i>Bachelor of Technology in Mechanical Engineering, GPA: 3.90/4.00</i>	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
<i>Center for BrainHealth</i>	
– 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
<i>Paycom</i>	
– 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
<i>Center for BrainHealth</i>	
– 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
<i>Shiprocket Omuni Limited</i>	
– 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 <i>Spring Boot, JWT, PostgreSQL, Kafka, gRPC, Docker</i>	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.	