Tirupati Balu Chandrasekhar

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EDUCATION

University of North Texas — Denton, TX
Masters In Computer Science — *Aug. 2023 – May 2025*

Chennai Institute of Technology — Chennai, IN
Bachelor of Engineering in Electronics and Communication Engineering — *Aug. 2018 – May 2022*

EXPERIENCE

Software Engineer — July 2025 – Present
MS Info Tech LLC — *Denton,TX*

- Designed and developed scalable REST APIs using Spring Boot to support core features such as employee onboarding, payroll, and attendance tracking.
- Automated manual HR processes by integrating business logic into modular, testable Java services.
- Wrote JPA/Hibernate queries to interact with relational databases, ensuring data consistency and optimal performance.
- Participated in code reviews, Agile ceremonies (daily stand-ups, sprint reviews), and contributed to sprint planning and estimation

Backend Developer (Open Source Contributor) — August 2023 – February 2024
Matchmaking Application — *Remote*

- Contributed to the backend development of a matchmaking platform using Express.js, TypeScript, AWS services, Hasura, and Stripe for scalable and secure functionality.
- Designed and implemented RESTful routes and business logic for core features such as user registration, profile matching, and subscription payments.
- Integrated JWT-based authentication and authorization workflows to secure protected routes and user sessions.
- Worked with Hasura GraphQL APIs for real-time data access and PostgreSQL database operations, optimizing queries for performance and reliability.
- Implemented Stripe integration for handling payments, subscriptions, and transaction monitoring.

Full Stack Developer — March 2022 – September 2022
Areteans — *Chennai, IN*

- Successfully developed multiple end-to-end case types to automate the issuance and claims handling process in a car insurance application using Pega 8.6.
- Designed and implemented case types, process flows, UI forms, data pages, and decision rules, aligning business requirements with Pega's rule-based architecture.
- Collaborated with senior developers and business analysts to gather and analyze requirements, translating them into scalable and maintainable Pega workflows.
- Performed unit testing, participated in peer code reviews, and contributed to debugging and defect resolution during Agile development sprints.

PERSONAL PROJECTS

Mocky | Live Link — December 2024

- Mocky is an AI-powered mock interview platform with Next.js 15, allowing users to simulate realistic technical interviews and receive instant feedback.
- Integrated the Gemini API to simulate a proper interview experience, where Gemini generates real-time interview questions tailored to the user's profile.
- Developed a microphone-based response capture system, processing 100% of user voice inputs through Gemini to provide actionable, question-specific feedback in under 5 seconds..
- Technologies Used: Next.js 15, React, TypeScript, Tailwind CSS, Gemini API, Neon DB, Prisma ORM, Auth.js.

ByteShare | Live Link — November 2024

- Byteshare is a file-sharing application allowing users to upload files upto 500MB and generate shareable links for easy distribution.
- Designed and implemented RESTful APIs for handling file uploads and link expiration, ensuring security and scalability.
- Integrated AWS S3 for secure and scalable file storage, using presigned URLs for access control.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, HTML, CSS, JSON, YAML, XML, SQL
Frameworks: SpringBoot, Node.js, Next.js, Express.js, React.js
Microservices: Discovery Client (Eureka), API Gateway, OpenFeign Client, Resilience4j, Spring Cloud Config
DevOps: Docker, Kubernetes, Jenkins, Terraform
Developer Tools: Maven, Gradle, Git, GitHub, CI/CD, AWS Cloud Services, Swagger

CERTIFICATIONS

AWS Certified Cloud Practitioner [Link]