

Hemanth Reddy Theegala

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PROFESSIONAL SUMMARY

Software Engineer experienced in healthcare and edtech, specializing in backend systems and cloud solutions. Skilled in Java, Spring Boot, Node.js, AWS, React, delivering impact via automation, microservices, and AI.

EDUCATION

New Jersey Institute of Technology, Newark, NJ

Sep. 2023 – May 2025

Master of Science - Computer Science

CGPA: 3.95

Relevant Coursework: Algorithms and Data Structures, Database Systems, Operating Systems, Web Systems

EXPERIENCE

Software Engineer

Jul. 2025 – Present

MediSprout

Boston, MA

- Accelerated reporting performance by **20%** through high-performance backend **microservices** with **Spring Boot**, **Spring Data JPA**, **Spring Security**, and **Spring Cloud**, ensuring **HIPAA-compliant** provider isolation
- Enhanced data integrity by designing **Aurora RDS** schemas and **ETL pipelines** processing **12K** records weekly
- Delivered **25%** faster decision-making by building robust **React** dashboards with APIs providing real-time insights
- Redesigned **reporting architecture** by replacing Google Sheets with **AWS Lambda**, **Amazon SQS**, and a **serverless** design, containerizing with **Docker** and automating **CI/CD** pipelines to cut release cycles by **70%**

Software Engineer

Jan. 2025 – May 2025

FundNJ

Newark, NJ

- Engineered an **AI-driven discussion platform** by developing backend services with **Node.js**, **Express**, and **Redis caching**, integrating **Canvas LMS** data to support **1000+** users with millisecond-level latency
- Optimized backend performance by refining **PostgreSQL** schemas and integrating **Google Gemini AI APIs**, and enabling AI-powered **React dashboards** and **UI features** in an **agile, cross-functional environment**
- Achieved **90%** test coverage through **unit** and **integration tests** with **Jest**, reducing production bugs by **20%**

Teaching Assistant

Oct. 2023 – Apr. 2025

New Jersey Institute of Technology

Newark, NJ

- Led **Data Structures and Algorithms** labs for **200+** students, mentoring in coding skills and problem-solving

Software Engineer Intern

Sep. 2022 – Dec. 2022

Suntek Corp Solutions Pvt. Ltd.

Hyderabad, India

- Built secure grading workflows with **Spring Boot**, **Spring Security**, automating build processes with **Maven**
- Developed scalable **REST APIs** with **Spring MVC**, **Spring Data JPA**, and **MongoDB** to serve **200+** users

PROJECTS

Tradeit - Crypto Trading App

| Website | Source Code *React.js, Maven, Spring Boot, CI/CD*

- Developed a trading platform with React, Redux, Tailwind CSS and **Spring Boot** using **Spring Security** with **JWT** and **OAuth2** for authentication, **Spring Data JPA** for persistence, **Spring MVC** for **REST APIs**
- Automated **GitHub Actions** for **CI/CD**, built an **AI chatbot** with **OpenAI** and deployed backend on **AWS ECS Fargate** with **RDS MySQL**, and frontend on **S3** with **CloudFront**, using API Gateway for routing

PathFinder - Learning Management System

| Website | Source Code *Node.js, Express.js, AWS*

- Built a **LMS** using Next.js, Tailwind CSS, and Express.js, deployed on **AWS infrastructure** for **1,000+** users
- Containerized the application using **Docker** for streamlined deployment in a scalable **microservices** architecture, integrating **AWS Lambda**, **DynamoDB**, and **API Gateway** for a serverless design, and **AWS S3** for storage

Flight Data Analysis Using Hadoop MapReduce

| Source Code *Hadoop, MapReduce, Linux*

- Developed a **Big Data** processing pipeline using **Hadoop MapReduce** on **Linux-based AWS EC2**
- Scaled a **multi-node Hadoop cluster** (**4→9 VMs**) with **HDFS**, improving distributed processing by **30%**

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML, CSS, R

Frameworks: Spring Boot (Security, MVC, Data JPA, Cloud), React.js, Node.js, Express, Next.js, Tailwind CSS, JUnit

Databases: PostgreSQL, MySQL, Aurora RDS, MongoDB, NoSQL

Developer Tools: AWS, GCP, Docker, Kubernetes, REST, Git, GraphQL, CI/CD, XML, JSON, Linux