

Sreehari Nallapaneni

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Skills

Programming Languages: JavaScript (ES6+), TypeScript, Python, SQL

Frontend: Angular, ReactJS, HTML5, CSS3, Tailwind CSS, Bootstrap

Backend: Node.js, Express.js, RESTful API Design, Microservices Architecture

Databases: MongoDB, PostgreSQL, MySQL

Cloud & DevOps: AWS (EC2, S3, Lambda, API Gateway), Git, Docker (Basics), CI/CD

Practices: Test-Driven Development (TDD), Agile/Scrum, Clean Architecture, Code Reviews

Work Experience

Infosys, Hyderabad

April 2024 – Present

Software Engineer

- Developed **40+** RESTful APIs with secure authentication, clean architecture principles, and optimized database queries.
- Integrated **15+** core features in a microservices architecture, improving scalability and maintainability.
- Applied lazy loading and caching strategies to improve page performance by over **30%**.
- Built reusable, component-driven UI using Angular, ensuring high responsiveness and performance.
- Followed **Test-Driven Development (TDD)** approach, writing unit and integration test cases to ensure code reliability and maintainability.
- Actively worked in **Agile/Scrum** environment, participating in sprint planning, daily stand-ups, retrospectives, and conducting PR reviews.

TRC Solutions Pvt. Ltd., Hyderabad

Sept 2022 – April 2024

Software Engineer

- Developed backend services using Node.js and Express.js, improving service performance by 50%.
- Built **80+** secure REST APIs using SQL/NoSQL, following best practices and scalable architecture.
- Enhanced and refactored the source code and scaled the backend server thus improving the performance of the service by almost **70%**.
- Deployed full-stack applications in the cloud with a secure and reliable architecture.
- Improved report scheduler speed by **60%** by optimizing MongoDB queries and implementing batch data fetching.

Tata Elxsi, Bangalore

August 2021 – Sept 2022

Software Engineer

- Designed a reliable data pipeline for IoT devices using Python and PostgreSQL, deployed via AWS Lambda.
- Created **50+** RESTful APIs using Node.js and Express.js for user, order, and product flows.
- Optimized query performance and used caching to enhance system response time.
- Deployed services in AWS cloud (S3, EC2, Lambda, API Gateway) for scalable backend processing.

Way2Online, Hyderabad

May 2020 – May 2021

Software Engineer Intern

- Built SDK with email tracking capabilities integrated with the admin dashboard.
- Developed REST APIs using Node.js and Express.js to retrieve and analyze user email stats.
- Designed user retention and segment search features to enhance product insights.
- Collaborated with a team to build frontend modules using Angular and integrated APIs.

Education

IIIT RK Valley

B.Tech. in Computer Science and Engineering

PUC (Pre-University Course) – MPC Stream

July 2015 – Aug 2021

CGPA: 8.1/10

CGPA: 7.6/10

Personal Projects

- **MacroTracker – AI-Powered Nutrition & Macro Tracking App** [[Live](#)]: Built a cross-platform **Ionic/Angular** mobile application (Android) for tracking daily meals, macros (calories, protein, carbs, fat), and water intake with personalised goals. Developed an **AI recipe parser** leveraging an LLM to extract per-ingredient nutritional data from plain-text meal descriptions, and integrated **Milo**, a conversational AI nutrition coach providing personalised insights based on the user's profile and logged meals. Deployed using **Docker** with an automated CI/CD pipeline that builds platform-specific images, pushes to Docker Hub, and triggers zero-downtime VM deployment via SSH.
- **DBPilot – AI-Powered Database Assistant** [[Live](#)] [[GitHub](#)]: Built an AI-powered platform enabling support engineers and non-developers to query **PostgreSQL, MySQL, and MongoDB** using plain English. Implemented natural language to safe, read-only **SQL and MongoDB pipelines** using **OpenAI GPT-4o**, with results displayed in a paginated table UI.
- **ReportsForge – Report Automation Platform** [[Live](#)]: Designed and implemented a full-stack web application using the **PEAN stack (PostgreSQL, Express.js, Angular, Node.js)** for generating automated reports. Implemented Google OAuth for login and integrated **Nextcloud Office Suite** to enable custom template creation and document editing in-browser. Deployed the platform using **Docker and Nginx** for containerized, production-ready hosting.
- **YouTube AI Agent – Intelligent Video Fetching & Comparison** [[Live](#)]: Built an AI-Agent using a REST architecture inspired by the MCP (**Modal Context Protocol**) architecture to retrieve and compare the YouTube videos. Developed a suite of custom tools using the **YouTube Data API** for video and its meta-data retrieval. Integrated an LLM-based reasoning module for contextual responses to the user.

Awards and Certificates

- **Insta Raise Award (x2)**: Received consecutive quarterly recognition as **Best Performer in Project Delivery** at **Infosys** for exceeding quality and timeline metrics. (Jan 2025, Jun 2025)
- **AWS Architecting on AWS with Jam (Certificate of Completion)**: 4-day hands-on training by AWS on designing and deploying scalable, secure cloud architectures. (Completed: May 2022)