



# Surya Rajendran

Node.js Developer

**OVERALL EXPERIENCE :** 5 Years 8 Months

## TECHNICAL SKILLS

### Programming Languages:

JavaScript, TypeScript, PHP

**Backend Development:** Node.js, Express.js, Nest.js, Lumen

### Serverless Technologies:

Serverless, AWS Lambda, Cloud Functions

### Database Management:

DynamoDB, S3, SQL, Sequelize, MySQL, MS SQL, Firestore

### Cloud

**Services:** AWS (including DynamoDB, S3, Lambda, Step Functions, Batch, ECS, SQS), GCP, Firebase

### Job Scheduling:

Cron Job

### Version Control:

Git

### Continuous

### Integration/Continuous

**Deployment (CI/CD):** GitHub Actions

### Containerization:

Docker, Kubernetes

### API

**Development Tools:** Postman, Swagger

### Streaming/Messaging:

Kafka

### Secrets Management:

Secret Manager

## EDUCATION

### Bachelor of Engineering (Computer Science)

Arignar Anna Institute of Technology, Anna University

- **Node.js Expertise:** Specializing in Node.js and related frameworks such as Serverless and NestJS for robust app development.
- **Microservice Architecture:** Designed and implemented microservice systems to optimize monolithic architectures.
- **Service Migration:** Competently managed the transition from monolithic to microservices without disrupting live production.
- **Cloud Deployment:** Proven ability in deploying serverless functions and establishing AWS common libraries.
- **API Development:** Skilled in crafting and integrating RESTful APIs for seamless app operations.
- **Agile Practices:** Engaged in agile methodologies to enhance team collaboration and project management.
- **Leadership and Team Building:** Experienced in directing development teams and fostering a collaborative environment.
- **Technical Proficiency:** Versed in a diverse set of tools including AWS, GCP, TypeScript, and JavaScript.
- **User Experience Focus:** Committed to improving user engagement through feature enhancement.
- **Problem-Solving:** Adept at diagnosing and resolving data issues, maintaining and optimizing existing codebases.

## EMPLOYMENT HISTORY

### Senior Associate | Mar 2025 - Present

Synechron Technology Pvt.Ltd

#### Node:

- Advanced automation testing using Playwright.
- Gained knowledge in micro-service architecture.
- Improved TypeScript skills through hands-on practice.
- Learned security measures to prevent attacks.

### Senior Engineer | May 2022 - Mar 2025

Aspire Systems

- Designed and developed a system using microservice architecture from scratch to improve the performance of an existing monolithic system.
- Responsible for migrating services one by one without affecting the production system.
- Created and deployed multiple microservices built using the Serverless framework and NestJS.
- Developed cloud functions in Google Cloud Platform and deployed them.
- Worked with Firebase and Firestore.
- Created and maintained common libraries in AWS CodeArtifact for use by other developers.
- Played an important role in team management.

Tools: AWS ECS, ECR, Lambda, API Gateway, S3, SQS, DynamoDB, Step Functions, AWS Batch, Secrets Manager, Serverless, Jest, TypeScript, JavaScript, Node.js, GCP, Firebase, Firestore, Cloud Functions.

### Software Developer | Nov 2020 - May 2022

Venba Infotech

- Worked on an interface project and learned Node.js, Express.js, MS SQL, MySQL, and PHP (Lumen).
- Developed and maintained RESTful APIs using Node.js and Express.js.

- Responsible for debugging and fixing various data issues in the application.
- Assisted in the maintenance and testing of the existing codebase.

Tools: JavaScript, Node.js, Express.js, MS SQL, PHP (Lumen), MySQL, Swagger, Angular.

### **Junior Software Developer | Dec 2019 - Jul 2020**

#### **Cavintek**

- Collaborated with developers to implement new features and improve application usability.
- Participated in agile development processes, including daily stand-ups and sprint planning.
- Played a significant role in the development of an app.
- Contributed to a booking application.

Tools: React.js, JavaScript, HTML, CSS, Postman, VSCode, SQL.

### **Trainee | Jun 2019 - Nov 2019**

#### **ISoft**

- Worked on developing a web application.
- Designed the table relationship diagram for the software database.
- Contributed to the development of a comprehensive web application, enhancing my skills.

**Tools:** Git, Node.js, Express.js.

## **PROJECTS**

### **Project: FlyAkeed - Flight and Hotel Charting System**

Duration: October 2023 - Present

Description: FlyAkeed is a flight and hotel charting company that operates as a B2B firm, helping corporate employees book their flights and hotels.

Responsibilities:

- Identified performance issues in the system, especially during peak hours with high API call volumes.
- Created a base setup for microservice architecture applications using monorepo standards.
- Maintained two types of microservice applications: Lambda-based and ECS-based.
- Created and maintained npm libraries for both types of applications using AWS CodeArtifact.
- Debugged data issues within the data pipeline.

Tools: AWS ECS, Lambda, DynamoDB, Step Functions, TypeScript, API Gateway, S3, SQS, Secrets Manager, Serverless, Jest testing framework, AWS Batch, Docker, Kubernetes, Kafka.

### **Project: Adtalem - Artificial Intelligence Digital Human**

Duration: Nov 2022 - Sep 2023

Description: A Digital Human Application is an AI-powered, humanized version of chatbots and digital assistants.

Responsibilities:

- Understood client requirements and built RESTful APIs.
- Designed, developed, and maintained RESTful APIs using Express.js, serving as the foundation for web applications.
- Debugged and resolved production issues, ensuring high system availability and performance.
- Integrated and worked with databases (e.g., Firebase).
- Involved in high-level and low-level design of the application.
- Collaborated closely with front-end developers and product managers to define API endpoints and ensure seamless user experiences.
- Conducted unit testing as part of development.
- Managed QA and UAT releases.
- Responsible for issue fixes and support calls for QA testing.

Tools: JavaScript, Node.js, Express.js, Firebase, Firestore, GCP, Cloud Functions.

**Project: Adtalem - Virtual Interpersonal Practice**

Duration: Jun 2022 - Dec 2022

Description: The Virtual Interpersonal Practice Application is a single- page web application utilized by educational institutions to monitor students' progress.

Responsibilities:

- Primarily responsible for creating API services for the application.
- Designed, developed, and maintained RESTful APIs using Express.js, serving as the foundation for web applications.
- Debugged and resolved production issues, ensuring high system availability and performance.
- Integrated and worked with databases (Firebase).

Tools: JavaScript, Node.js, Express.js, Firebase, Firestore, GCP, Cloud Functions, Postman.

**Project: SMC Finance - SMC Financial**

Duration: May 2021 - Apr 2022

Description: SMC Financial is a web application for businesspeople seeking loans from banks. Users can create accounts, submit the required documents, and undergo background verification through the portal.

Responsibilities:

- Understood business requirements.
- Designed, developed, and maintained RESTful APIs using Express.js.
- Involved in requirement gathering.
- Assisted in developing and maintaining backend services using Node.js and Express.js.
- Collaborated with senior developers to design and implement RESTful APIs.
- Gained proficiency in database systems, including MySQL and NoSQL databases.
- Participated in troubleshooting and resolving production issues, ensuring high system availability.
- Contributed to the creation of documentation for APIs and system architecture.

Tools: JavaScript, Node.js, Express.js, Firebase, Firestore, GCP, Cloud Functions, Postman, Swagger.

**Project: PD Genie - PD Genie**

Duration: November 2020 - May 2021

Description: PD Genie is a triggering and tracking software application that allows users to conveniently trigger a Personal Discussion (PD) online.

Responsibilities:

- Understood business requirements.
- Responsible for creating APIs and their documentation.
- Coordinated with the design and testing teams and monitored their performance.

Tools: JavaScript, Node.js, Express.js, Angular, Firebase, Firestore, GCP, Cloud Functions, Postman, Swagger.

**Project: Cflowapps - Cflow**

Duration: Dec 2019 - Jul 2020

Description: Cflow is workflow automation software with intuitive features that help organizations automate their workflows.

Responsibilities:

- Understood business requirements.
- Responsible for creating APIs and their documentation.

Tools: JavaScript, Node.js, Express.js, Firebase, Firestore, GCP, Cloud Functions, Postman, Swagger.