

Kapilan Manikandan

Software Engineer

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Professional Summary

Dedicated and results-oriented **Full Stack Developer with 3+ years of experience** delivering scalable, cloud-based applications and leading small engineering teams. Proven **module lead** with hands-on expertise across frontend and backend development using **Node.js, React, and Next.js**, and practical experience within the **AWS cloud ecosystem**, including **Lambda, S3, SES, SQS, and Step Functions**, with working exposure to AWS SNS and API Gateway. Skilled in designing secure, event-driven architectures using JWT-based authentication, role-based access control, and messaging platforms such as Kafka, RabbitMQ, and ActiveMQ. Recognized for **technical leadership, code quality, and end-to-end SDLC ownership**, and recipient of the SPAN Superstar Award for outstanding contributions to enterprise payroll product development.

Technical Skills

Languages: JavaScript, C#

Backend: Node.js, Express.js, REST APIs, JWT, RBAC, MVC Architecture

Frontend: React, Next.js, Bootstrap, HTML, CSS

Databases: PostgreSQL, MySQL, MongoDB

Cloud: AWS (Lambda, S3, SES, SQS, SNS, EventBridge, Step Functions, API Gateway)

Messaging & Caching: Kafka, RabbitMQ, ActiveMQ, Redis

Tools: Git, GitHub, Docker, Sequelize ORM, CODA Docs API

Methodologies: Agile, SDLC, Team Leadership, Product Architecture

Experience

Software Engineer

May 2025 - Present

SPAN Technology Services Pvt Ltd | Coimbatore, Tamil Nadu

- Led a module team of three engineers, handling task allocation, code reviews, and delivery timelines, resulting in an 80–85% reduction in production bugs and consistently on-time releases.
- Redesigned the client-side product architecture to implement a scalable role-based access control (RBAC) system, improving authorization, maintainability, and security.
- Developed and maintained backend services using Node.js, Sequelize ORM, and PostgreSQL, streamlining data operations and improving overall system reliability.
- Optimized product regeneration workflows and introduced a state-based configuration architecture, achieving a 10–15% improvement in application performance and scalability.
- Designed and implemented a JWT-based authentication and authorization system for the e-sign portal, enabling secure CPA user access for electronic document signing.

Junior Software Engineer

May 2023 - Apr 2025

SPAN Technology Services Pvt Ltd | Coimbatore, Tamil Nadu

- Contributed to the architecture and development of enterprise-level applications using Next.js, Node.js, and PostgreSQL, delivering scalable and maintainable solutions.
- Implemented a digest mail preference system using **AWS EventBridge** and **SNS** for real-time bounce tracking.
- Managed messaging services with **Kafka** to ensure a scalable and reliable data flow.
- Optimized system performance by **leveraging Redis** for caching and **working with RabbitMQ/ActiveMQ** for message queue management.

Junior Software Engineer Intern

May 2022 - Jan 2023

SPAN Technology Services Pvt Ltd | Coimbatore, Tamil Nadu

- Developed a full-stack Meeting Room Management application using **Next.js**, **Node.js/Express.js**, and **MongoDB** to support internal resource scheduling.
- Contributed to internal platforms including **SPAN Plan** and **SPAN Foods**, implementing role-based architecture and integrating CODA Docs to support HR content and food-ordering workflows for 300+ employees.
- Worked in an Agile environment, collaborating with cross-functional teams and delivering assigned features within timelines.

Projects

Taxbandits Payroll

- Contributed to product architecture and development using **Next.js 14**, **Node.js 20**, **Express.js**, and **PostgreSQL**.
- Built core payroll features including pay schedules, tax calculations, and pay stub processing, ensuring accuracy and compliance.
- Designed a plan-based client-side architecture and implemented mail and folder management systems for user communication.

Taxbandits W-9/W-8Ben

- Led development and owned the product lifecycle, delivering a scalable document and compliance solution.
- Implemented digest mail preferences and bounce tracking using **AWS EventBridge** and **SNS**.
- Integrated RabbitMQ (development) and ActiveMQ (production) with a full-stack setup using Next.js, Express.js, Bootstrap, and MySQL.

Achievements

- Received SPAN Superstar Award for exceptional performance and contribution to Taxbandits payroll product.

Certifications

- React Front To Back (Udemy, Sep 8, 2022)
- Next.js Dev to Deployment (Udemy, Sep 8, 2022)

- The Complete Node.js Developer Course (3rd Edition) (Udemy, Aug 10, 2022)
- Modern JavaScript From The Beginning 2.0 (2024) (Udemy, July 11, 2022)

Education

Bachelor of Science in Information Technology

2023

Hindusthan College of Arts and Science, Coimbatore, Tamil Nadu