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

SPAN Technology Services Pvt Ltd | Coimbatore, Tamil Nadu *Software Engineer | May 2025 – Present*

- 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

- 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

- 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 & CERTIFICATIONS

- **SPAN Superstar Award**: For exceptional performance and contribution to Taxbandits payroll product.
- **React Front To Back** (Udemy, Sep 8, 2022)
- **Next.js Dev to Deployment** (Udemy, Sep 8, 2022)
- **The Complete Node.js Developer Course** (Udemy, Aug 10, 2022)
- **Modern JavaScript From The Beginning 2.0** (Udemy, July 11, 2022)

EDUCATION

Bachelor of Science in Information Technology

Hindusthan College of Arts and Science, Coimbatore, Tamil Nadu | *Graduated 2023*