

# Palani Kameshwaran

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## TECHNICAL SKILLS

**Programming:** Java, JavaScript, SQL

**Frameworks & Databases:** Spring Boot, React.js, Node.js, Express.js, MongoDB, Redis

**APIs & Messaging:** REST APIs, Microservices, Apache Kafka, BullMQ, Socket.IO

**Cloud & DevOps:** AWS (EC2, S3, CloudFront), Docker, Git

## EXPERIENCE

### Full Stack Developer

Sep 2024 – Present

*Maticz Technologies Pvt Ltd*

*India*

- Architected and delivered **scalable backend RESTful APIs** using **Node.js (Express)** and **Java (Spring Boot)**, applying **microservices architecture**, service-oriented design, and versioned API contracts
- Engineered **asynchronous, event-driven pipelines** with **Apache Kafka** and **BullMQ**, processing **100K+ messages/day** and reducing peak CPU utilization by **60%**
- Integrated **JWT-based authentication** and **RBAC** across **8+ microservices**, securing access for **1K+ active users**
- Delivered **real-time backend communication** using **Socket.IO**, supporting **1,000+ concurrent connections** with optimized WebSocket handling
- Implemented **NFC-based authentication APIs**, enabling secure device-level access and seamless integration with **React Native** applications
- Optimized backend performance through **debugging, root cause analysis, and system tuning**, improving application stability in production

### Software Developer

Sep 2023 – Sep 2024

*Maticz Technologies Pvt Ltd*

*India*

- Integrated backend **REST APIs** into **React.js** applications and developed reusable UI components to support new product features
- Contributed to **backend service development** using **Java Spring Boot** and **Node.js**, exposing **RESTful APIs** for React-based frontend applications
- Designed and maintained **AWS S3-based file upload services** handling **10K+ files/month**, integrated with **CloudFront CDN** to reduce download latency by **40%**
- Enhanced application scalability by introducing **Redis caching** and optimizing database queries, reducing average API response times by **70%**
- Integrated **OpenAI APIs (ChatGPT, DALL·E)** into backend systems, supporting **AI-driven features** used by **500+ end users**
- Supported **end-to-end feature delivery** across **MERN stack** and Java-based systems, contributing to **monthly production releases** and post-deployment support

## PERSONAL PROJECTS

**News AI Assistant Chatbot** | *React, Node.js, Python, Qdrant, Redis, Gemini LLM*

- Developed an **AI-powered news chatbot** using **RAG (Retrieval-Augmented Generation)** for contextual and accurate responses
- Implemented **semantic search and retrieval** using embeddings with **Qdrant vector database**
- Designed a **Redis-backed session management** layer to maintain conversational context and reduce response latency
- Deployed and hosted the application publicly at [ai-news-teal.vercel.app](https://ai-news-teal.vercel.app)

**Todo App Web Extension** | *JavaScript, Web Extensions API*

- Built a lightweight **browser-based Todo web extension** with offline-first functionality using local storage
- Designed a clean, minimal UI optimized for fast task creation and management
- Open-sourced the project at [GitHub Repository](#)

## EDUCATION

**M.Sc Computer Science**

*Thiagarajar College*

2021 – 2023

*Madurai, TamilNadu*