

# Pavucsan Manokaran

## Senior Software Engineer – Java

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## SUMMARY

Senior Java Backend Engineer with 6+ years of experience designing, developing, and supporting enterprise-scale microservices and APIs using Java 8/17/21, Spring Boot, and AWS cloud services. Strong expertise in REST APIs, event-driven architectures, Oracle databases, CI/CD pipelines, cloud-native deployments, and production support. Experienced in monitoring, troubleshooting, performance optimization, and delivering highly available backend systems in Agile environments. Skilled in AWS (EC2, RDS, CloudWatch), Docker, Git, Jenkins, and secure authentication solutions including Amazon Cognito and OAuth-based identity management.

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer, SMARTZI Lanka (Full-Time)

July 23 – Current

- Designed and developed Java Spring Boot microservices supporting ride-hailing and booking platforms.
- Developed and maintained REST APIs serving thousands of daily transactions.
- Supported production systems and resolved critical incidents, ensuring high system availability.
- Implemented cloud-native deployments on AWS using EC2, RDS, CloudWatch, and API Gateway.
- Optimized database performance using PostgreSQL and Oracle query tuning techniques.
- Participated in root cause analysis and continuous improvement initiatives.
- Collaborated with cross-functional teams in Agile Scrum environments.

### Software Engineer, HITACHI Digital Payment Solution (HDPS) (Full-Time)

May 22 – July 23

- Developed secure backend services using Java and Spring Boot for banking and payment solutions.
- Built and enhanced microservices handling card and loyalty transactions.
- Worked with Oracle databases, stored procedures, and performance tuning.
- Supported production environments and investigated application issues.
- Implemented monitoring and alerting using AWS CloudWatch.
- Participated in CI/CD activities using Git and Jenkins.
- Developed and maintained MuleSoft API integrations between internal and third-party systems.

### Software Engineer, SMARTZI Lanka (Full-Time)

March 21 – May 22

### Associate Software Engineer, SMOFIXS – Freelancer

September 19 – March 21

## EDUCATION

### Master of Science in Software Engineering (MSc), Kingston University London

February 25 – March 26

(Graduated: 2026, GPA:3.4 with **MERIT**)

- Relevant course work: AI integrated research, Advanced Software Engineering

### Bachelor of Technology in Software Technology (BTech.), University of Vocational

Technology, Sri Lanka (Graduated: 2021, GPA – 3.42 – **SECOND UPPER**)

March 17 – January 21

- Relevant course work: Data Structure, Algorithm, Software Engineering

### Diploma in Information Communication & Technology, College of Technology Hardy

May 14 – July 21

## KEY PROJECTS & ACHIEVEMENTS

### • Driver Partner Service – Marketplace, SMARTZI

Optimized driver allocation by integrating partner collaboration, reducing booking cancellations and improving service coverage.

### • Airport Booking Service, SMARTZI

Automated airport booking workflow based on live flight data, minimizing manual reassignments and driver wait times.

### • B2B – Invoice, SMARTZI

Implemented an automated vendor invoicing system that improved processing efficiency and reduced manual errors by 40 percentage.

### • Driver Service Migration, SMARTZI

Migrated monolithic driver services into Java Spring Boot microservices, improving scalability, fault isolation, and deployment efficiency while reducing response times by 30%.

### • IMS – Integrated Monitoring System – FinTech, HDPS

Developed a secure monitoring solution to track configuration and PCI file changes, strengthening compliance for banking audits.

### • Loyalty Points (ILOYALTY) – FinTech, HDPS

Built a loyalty points system that increased customer engagement through automated rewards for frequent transactions.

- **ICARD (card-service feature development) – FinTech, HDPS**

Enhanced card service platform by integrating merchant QR and installment features, improving customer transaction flexibility.

- **Spring Security Migrate to Amazon Cognito Service, SMARTZI**

Migrated authentication from Spring Security to Amazon Cognito and enabling centralized user management.

## SKILLS

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- **Languages:** Java 8/11/17/21, SQL, Oracle, PostgreSQL, MySQL, Python

- **AI :** Generative AI, Large Language Models (LLMs), Prompt Engineering

- **Frameworks & Libraries:** Spring Boot 3.x, Spring Security, Spring Data JPA, Hibernate, REST APIs, GraphQL APIs

- **Tools & Platforms:** Git, GitLab, Jenkins, Docker, CI/CD Pipelines, SVN, Redis, Kafka, MLflow, Jupyter Notebook, Tomcat/JBoss, Linux

- **Cloud & Infrastructure:** AWS: EC2, ECS, RDS, Aurora, CloudWatch, Grafana, API Gateway, Lambda, Cognito

- **Dev Practices:** Agile, Scrum, Test-Driven Development (TDD), Continuous Integration (CI), Continuous Deployment (CD), Design Patterns, MLOps, Redis-cache-patterns

- **Architecture:** Microservices, Monolithic, MVC, Event-Driven Architecture, AI-Integrated Systems

- **Security:** Authentication & Authorization: Spring Security, OAuth2, JWT, Amazon Cognito

## LANGUAGES

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English, Tamil, Sinhala