

# Nandhakumar Velumani

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## Software Engineer (Backend)

Overall 2.5 years of experience

## EXPERIENCE

### Mphasis Limited, Bengaluru - Software Engineer

June 2022 - Present

- Developed and tested(**Unit testing, Postman API testing**) the backend systems for a web application using **Java, and Spring Boot 3** with performance and scalability.
- Optimized the **PostgreSQL** database queries in terms of performance and scalability
- Implemented **security(Authentication and Authorization)** in the backend application
- Hosted the backend application and database in the AWS cloud.
- Practiced **AWS** core concepts like EC2, S3, IAM, RDS, Lambda functions etc
- Collaborated closely with frontend developers to design the APIs that simplify the communication between frontend and backend.
- Managed 5 people to put the production-grade data into the web app for testing purposes.

## SKILLS

- Core Java
- Spring Boot 3
- PostgreSQL
- JUnit Testing
- AWS Cloud Practitioner
- Jenkins
- Data Modelling
- HTML, CSS, JS

## PROJECTS

### An invoice and inventory management Application

Technologies: Java 17, Spring Boot 3, PostgreSQL, JUnit, Postman, Jenkins, AWS Hosting

Description:

- Transformed the client's error-prone **Excel-based processes into a streamlined backend system.**
- Developed a system with **features for registering vendor invoices and product details**, managing product transfers, internal reallocations, and disposals

- **Manual sorting** was replaced with **advanced filtering** options across various entities.
- Implemented a **robust audit trail to track user actions** for accountability and transparency.
- Built a **dynamic dashboard featuring exportable graphs** for operational insights

## CERTIFICATIONS

**AWS Certified Cloud Practitioner CLF-CO2 2025**

## EDUCATION

**College Of Engineering Guindy(CEG) Anna University**, Chennai, Tamil Nadu

Course: B.E - **Electronics and Communication Engineering** (Aug 2018 - June 2022)

CGPA: **7.9 / 10**

**KRP Matric Higher Secondary School**(TN State Board), Namakkal, Tamil Nadu

Course: **12th STD** (June 2017 - May 2018)

Marks: **1169 / 1200 (97.4%)**

**KRP Matric Higher Secondary School**(TN State Board), Namakkal, Tamil Nadu

Course: **10th STD** (June 2015 - May 2016)

Marks: **487 / 500 (97.4%)**

## LANGUAGES:

- English
- Tamil