

# ASHOK SELVAKUMAR

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**GitHub:** [github.com/Ashok-30](https://github.com/Ashok-30) | **Portfolio:** <https://ashokselvakumar-portfolio.netlify.app/>

## PROFILE SUMMARY

Skilled Software Engineer with hands-on expertise in Java, Python, and AWS, combined with strong knowledge of Agile development methodologies. Proven track record in delivering scalable and efficient software solutions in high-demand, insurance-focused environments. Adept at integrating backend systems with RESTful APIs, optimising database performance, and implementing secure coding practices. Passionate about continuous learning and adept at applying the latest tools and technologies to solve complex technical challenges.

## TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, PHP
- **Frameworks & Tools:** Spring Boot, Angular, Hibernate, JUnit, Mockito, Bootstrap, Tailwind, Docker, Postman, SoapUI
- **Databases:** PostgreSQL, MySQL
- **DevOps & CI/CD:** Git, GitHub, Maven, Jenkins
- **Cloud & Platforms:** AWS (Certified Cloud Practitioner), RESTful APIs, Microservices
- **Methodologies:** Agile, SCRUM, Test-Driven Development (TDD), Behaviour-Driven Development (BDD)

## PROFESSIONAL EXPERIENCE

### Cognizant Technology Solutions | Programmer Analyst | Oct 2021 - Aug 2023

- Resolved over 700 high-priority incidents for a large-scale insurance underwriting platform, improving platform stability and achieving 90%+ service uptime.
- Designed and deployed a Spring Boot batch application that automatically triggered incident creation based on failed policy events, reducing manual overhead and improving SLA adherence.
- Refactored core modules in Java to address recurring system bottlenecks, enhancing throughput and cutting incident recurrence by 25%.
- Improved data processing efficiency by 40% through optimization of Java-based ETL pipelines and SQL queries in a live production environment.
- Collaborated within cross-functional Agile teams to deliver high-impact features, conducted code reviews, and ensured adherence to security and coding standards.

### Intern | Mar 2021 - Jul 2021

- Developed backend modules for enterprise applications using Java, SQL, and RESTful APIs, with a focus on performance and security.
- Leveraged Hibernate and JPA for efficient database access patterns, contributing to performance gains in transactional queries.
- Developed "City Classifieds," a full-stack web application enabling users to post, browse, and manage listings. Utilized Java, Angular, and RESTful APIs for efficient CRUD operations and a dynamic user interface.
- Contributed to multiple internal tools, focusing on optimizing user experience and enhancing front-end performance using JavaScript and Angular.
- Implemented and tested secure APIs, supporting integration and scalability across applications.

## PROJECT EXPOSURE

### ResumeIT - AI-Powered Resume Shortlisting Platform (In Progress)

- Building a full-stack system using **Spring Boot 3** and **Angular 18** for resume parsing and candidate ranking based on semantic similarity.
- Integrating **Hugging Face Transformers** and **spaCy** via a FastAPI service for NLP-driven job-resume matching.
- Implementing **Spring Security** with JWT, Google OAuth 2.0, and OTP-based authentication.
- Containerizing services with Docker and orchestrating multi-container deployment via Docker Compose.
- Managing resume metadata and analytics via **PostgreSQL**.
- Designing a responsive HR dashboard in Angular 18 for multi-resume uploads and ranked shortlists with similarity scores, leveraging PostgreSQL for efficient data management.

StockPro – Inventory Management System

- Developed a modular web app using **Angular**, **Spring Boot**, and **MySQL** to manage inventory and forecast stock needs using machine learning.
- Integrated 2FA and RBAC for security, alongside a real-time email alert system for critical stock events.
- Incorporated real-time inventory tracking and AI-driven sales forecasting, resulting in optimized stock levels.
- Employed TDD to validate forecasting logic and secure backend APIs.

AvailableCars – Car Rental Platform

- Designed the backend in **PHP** and integrated **PayPal API** for secure payments, with **MySQL** as the persistent store.
- Embedded **Google Maps API** for location tracking of rental vehicles.
- Conducted comprehensive security testing, including unit and integration tests, to identify and resolve vulnerabilities, ensuring a secure and reliable application.

City Classifieds App

- Built a full-stack application with Java, Angular, and Spring Boot, providing users with a platform to access city-specific information, including listings and updates.

NOTABLE ACHIEVEMENT

- Cheers and Client Award (Cognizant 2022)
- Star Performer (Cognizant 2023)

EDUCATION

MSc Web and Mobile Development Technologies | Sept 2023 - Oct 2024 | Northumbria University,  
London, United Kingdom  
BEng Electronics and Instrumentation Engineering | Aug 2017 - Jul 2021 | Anna University,  
Chennai, India

CERTIFICATIONS

- Certified Docker Foundations Professional (2025)
- AWS Certified Cloud Practitioner (2025)
- Certified Agile SCRUM Master (2025)
- Java Spring Framework 6 with Spring Boot 3 (2024)