

ASHOK SELVAKUMAR

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Profile Summary

Solution-oriented Software Engineer with expertise in Java, Python, and AWS, skilled in developing production-grade applications for high-traffic systems, to enhance efficiency and stability. Proficient in RESTful APIs and Agile methodologies, I drive innovation in fast-paced environments and am eager to contribute to impactful projects in a hybrid or remote capacity.

Technical Skills & Tools

- **Languages:** Java, Python, JavaScript, PHP
- **Frameworks:** Spring Boot, Angular, JUnit, Bootstrap, Tailwind
- **Tools & Platforms:** AWS, Docker, Hibernate/JPA, Jenkins, Git, GitHub, Postgres, MySQL, Postman, RESTful APIs
- **Testing:** TDD, BDD, Unit Testing, Integration Testing
- **Methodologies:** Agile, SCRUM, JIRA, code reviews

Projects

ResumeIT: AI-Driven Resume Shortlisting and Interview Prep Tool (In Progress)

- Architecting a microservices-based full-stack application using Angular 18 and SpringBoot 3 to automate HR resume shortlisting and job seeker interview preparation.
- Implementing NLP-driven semantic matching and question generation with Hugging Face Transformers and spaCy, deployed in a FastAPI microservice, integrated via REST APIs.
- Designing a responsive HR dashboard in Angular 18 for multi-resume uploads and ranked shortlists with similarity scores, leveraging PostgreSQL for efficient data management.
- Securing the application with Spring Security, enabling email/OTP authentication, Google OAuth 2.0, and JWT-based session management for role-based access.
- Containerizing microservices with Docker and Docker Compose, ensuring scalable and consistent deployment environments.

StockPro: Inventory Management Web Application

- Developed a microservice-based web application using Angular for the frontend, Spring Boot for backend services, and MySQL as the database, implementing RESTful APIs to ensure scalable and efficient inventory management.
- Integrated an AI-driven forecasting tool leveraging machine learning algorithms to predict stock needs and availability, optimizing inventory levels and minimizing wastage through accurate demand projections.
- Implemented robust security mechanisms, including two-factor authentication (2FA), role-based access control (RBAC), data encryption, and timed session management, to safeguard user data and ensure secure application access.
- Designed an email notification system to deliver real-time updates on inventory status, stock changes, and critical alerts, enhancing user awareness and operational responsiveness.

AvailableCars: Car Rental Platform

- Architected an end-to-end car rental platform using PHP, designing server-side functionality to enable seamless car posting, booking, and management, with a MySQL database for robust data handling.
- Integrated secure payment gateways using APIs (e.g., Stripe or PayPal) to facilitate reliable transaction processing, ensuring secure and efficient payment flows for car rentals.
- Embedded Google Maps API for real-time location tracking and navigation, enhancing user experience by connecting renters with available cars and providing route guidance.
- Conducted comprehensive security testing, including unit and integration tests, to identify and resolve vulnerabilities, ensuring a secure and reliable application.

Professional Experience

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

- Stabilized a high-traffic underwriting portal for a leading insurance firm by resolving 700+ incidents using Java, Spring Boot, and RESTful APIs in Eclipse, ensuring 90% uptime.
- Developed an automated incident management tool using Spring Boot batch processing to proactively generate incidents from failed insurance policies, integrating email notifications to enhance customer satisfaction and improve resolution efficiency by 30%.
- Designed and implemented Java-based solutions to address critical system issues, optimizing code and applying best practices to prevent recurring failures, enhancing system reliability and reducing defect rates by 25%.
- Engineered optimized SQL scripts and Java-based data processing pipelines for relational databases, improving data retrieval and processing efficiency in the production environment by 40%.
- Led Agile/SCRUM teams in developing and delivering scalable features for the underwriting portal, guiding system architecture design, mentoring developers on Java and Spring Boot best practices, and aligning technical solutions with business objectives.

Intern || Cognizant Technology Solutions || Mar 2021 - Jul 2021

- Developed production-grade applications with Java, and SQL databases, integrating RESTful APIs for backend connectivity.
- Applied secure coding practices, reducing vulnerabilities by 25%, and utilised Hibernate/JPA for efficient data handling.
- Implemented integration patterns to enhance system interoperability, leveraging Docker for deployment consistency.
- Used Git, Maven, and Jenkins for version control, build automation, and CI/CD pipelines, ensuring consistent software delivery.
- Worked closely with clients to deliver technical solutions, incorporating unit testing to validate functionality.

Education Summary

MSc Web and Mobile Development Technologies | **Distinction**.
Northumbria University.

London, United Kingdom
Sept 2023 - Oct 2024

B.E. Electronics and Instrumentation | **8.3 CGPA**.
Anna University

Chennai, India
Aug 2017 - Jul 2021

Awards & Certifications

- **AWS Certified Cloud Practitioner** | 2025
- **Java Spring Framework 6 with Spring Boot 3** | 2025
- **Cheers and Client Award, Star Performer**, Cognizant | 2022–2023