

# BALAMURUGAN SITHANATHAN

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## SUMMARY

Software Developer with expertise in designing, developing, and optimizing enterprise-level applications. Proficient in Java, Spring MVC, Hibernate, SQL, and PostgreSQL. Experienced in building scalable APIs, database optimization, and adopting Agile and TDD practices. Skilled in leading teams, managing developers, and delivering high-performance backend solutions aligned with business needs.

## TECHNICAL SKILLS

**Programming Languages:** Java (Core & Advanced), JavaScript, SQL, Python, C, C++, PHP

**Frameworks & Technologies:** Spring Boot, Spring MVC, Hibernate, JPA, RESTful APIs, Microservices Architecture, JDBC, Maven

**Databases:** PostgreSQL, MySQL, Oracle

**Cloud & DevOps Tools:** Git, GitHub, Bitbucket, CI/CD Pipelines, SonarQube

**Testing Frameworks:** JUnit, Mockito, TestNG, Postman

**Design & Architecture:** Object-Oriented Design, Design Patterns (Singleton, Factory), System Design, API Integration, Event-Driven Architecture

**Performance Optimization:** Query Optimization, Caching Strategies, Load Balancing, Multithreading, JVM Tuning

**Methodologies:** Agile (Scrum & Kanban), Test-Driven Development (TDD), CI/CD Pipelines

**Other Tools:** Jira, Eclipse, IntelliJ IDEA, Tableau, CASV, Adobe Photoshop

## WORK EXPERIENCE

### Deloitte

*Lead Software Developer (Solution Specialist)*

**Jun 2022 - Present**

Downington, PA

- Led a cross-functional team of 4-5 developers through full SDLC phases like requirements, design, coding, testing, and deployment, while mentoring junior engineers and enforcing code quality through peer reviews and CI/CD pipelines.
- Designed and developed scalable microservices using Java, Spring Boot, and REST APIs, ensuring fault tolerance, modularity, and smooth integration with distributed systems.
- Applied core Java principles, OOP design patterns, and data structures to build high-performance backend components supporting mission-critical Medicaid services for 1.5M users.
- Enhanced the TennCare Worker Portal by automating key workflows and optimizing backend performance, achieving a 20% improvement in operational efficiency and 25% faster data retrieval.
- Modernized system integrations by migrating SOAP services to RESTful APIs, reducing testing time by 32 hours per sprint and improving maintainability across 50+ cross-functional initiatives.
- Optimized PostgreSQL queries and indexing, cutting query time by 25% and server load by 15%.
- Implemented Spring Security and exception handling frameworks, strengthening application reliability and compliance with enterprise security policies.
- Championed Test-Driven Development (TDD), JUnit, and Mockito-based testing, achieving 100% unit test coverage and reducing production defects by 25%.
- Deployed 10+ mock services using CASV to simulate dependencies, reducing reliance on production systems by 80% and accelerating integration testing cycles.
- Collaborated with product owners, architects, and QA in Agile sprints to align deliverables with business goals.
- Recognized with Deloitte's Reward of Excellence (2024) for exemplary leadership, technical innovation, and delivery excellence.

### ACTICO

*Software Engineer (Intern)*

**Mar 2022 - Apr 2022**

Chicago, IL

- Built and deployed digital decision flow rules using ACTICO's modeling tools, automating manual decision processes and improving accuracy by 30%.
- Collaborated with senior engineers to translate complex business logic into modular, reusable rule-based systems, aligning with enterprise scalability standards.

### UIC College of Medicine

*Web Developer (Graduate Assistant)*

**May 2021 - Feb 2022**

Chicago, IL

- Developed and optimized cross-platform web applications using HTML, CSS, JavaScript, and PHP, improving UI reliability, scalability, and user experience, while collaborating with teams to ensure on-time project delivery.

### Cognizant

*Software Developer (Associate)*

**Jun 2016 - Dec 2020**

Chennai, India

- Designed and developed scalable Java applications using Spring MVC and Hibernate, delivering high-performance backend solutions aligned with business requirements.
- Managed the complete SDLC, including requirements gathering, design, development, testing, deployment, and support, to deliver high-quality solutions on schedule.
- Applied Agile (Scrum & Kanban) to streamline execution, saving \$30K and cutting effort by 20%.
- Conducted code reviews, debugging, and performance tuning, reducing screen load times by 40% and improving application reliability.
- Built and optimized database schemas, queries, and stored procedures, cutting production deployment time by 30% while ensuring scalability and data integrity.

## EDUCATION

University of Illinois Chicago, USA | M.S., Management Information Systems

SRM University, India | B. Tech, Mechanical Engineering