

# Shruthi Nandakumar

## Full Stack Developer

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### SUMMARY

Full Stack Developer with 4+ years of experience across the complete Software Development Life Cycle (SDLC), specializing in building responsive, user-centric web applications using React.js, TypeScript, JavaScript, HTML5, CSS3, Bootstrap, and Tailwind CSS. Proficient in backend development with Java 8, Spring Boot 3, Spring MVC, Hibernate, JPA, and JDBC, with experience in designing RESTful APIs and integrating microservices using Kafka and RabbitMQ. Skilled in working with MySQL, PostgreSQL, and MongoDB, focusing on schema design and query optimization. Experienced in containerization and orchestration using Docker and Kubernetes, setting up CI/CD pipelines with Jenkins, GitHub Actions, and GitLab, and deploying applications on AWS (EC2, S3, RDS) and servers like Apache Tomcat and Oracle WebLogic. Strong understanding of data structures and algorithms, version control with Git, and testing using JUnit, Mockito, and Selenium. Expert in implementing security with Spring Security, OAuth2, and JWT, and collaborating in Agile environments using JIRA and Confluence for efficient project delivery.

### SKILLS

**Frontend Technologies:** React.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Bootstrap, Tailwind CSS, Responsive UI/UX Design  
**Backend & API Development:** Java 8, J2EE, Spring MVC, JSP, Hibernate, Spring Boot 3, JDBC, GraphQL, Microservices, Apache Kafka, RabbitMQ  
**Cloud Platforms & Deployment:** AWS (Lambda, EC2, S3, RDS, API Gateway)  
**DevOps & Containerization:** Docker, Kubernetes, Jenkins, GitLab CI/CD, GitHub Actions, Maven, Gradle, CI/CD Pipeline Automation  
**Database Technologies:** PostgreSQL, MySQL, MongoDB, Redis, Stored Procedures, Database Design, Performance Tuning, SQL Query Optimization  
**Security & Authentication:** Spring Security, OAuth2, JWT, RBAC (Role-Based Access Control), API Gateway Management, Secure Token Handling  
**Testing & Quality Assurance:** JUnit, Mockito, Selenium, Integration Testing, Load Testing, Performance Testing, API Testing (Postman, Swagger)  
**Version Control & Developer Tools:** Git, GitHub, GitLab, IntelliJ IDEA, Visual Studio Code  
**Agile Practices & Collaboration:** Scrum, Kanban, JIRA, Confluence, Sprint Planning, Code Reviews, Stand-ups

### PROFESSIONAL EXPERIENCE

**Morgan Stanley, St. Louis, MO** **Sep 2024 – Present**  
**Full Stack Developer**

- Enhanced account summary modules in a multi-tiered financial application by implementing Spring Boot-based microservices and integrating with React.js on the frontend, reducing page load time by 35% and improving user engagement among wealth management clients.
- Led the migration of two legacy monolithic services to containerized microservices using Spring Boot and Docker, deployed on Amazon EKS, which improved deployment agility and reduced post-deployment incidents by 40%.
- Redesigned critical transaction workflows in the backend using Java, optimizing thread management and applying non-blocking I/O patterns, which improved processing throughput by 50% during daily trade settlements.
- Implemented secure authentication mechanisms using JWT tokens and Spring Security, replacing outdated session-based models, and contributing to a 45% drop in login-related support tickets within the first two months.
- Developed and maintained interactive UI components for client dashboards using React.js and TypeScript, enabling real-time updates for portfolio performance and increasing NPS scores by 18% from internal client satisfaction surveys.
- Automated regression and integration testing for REST APIs using JUnit and Mockito, reducing manual QA time by 30% and ensuring a consistent 90%+ code coverage across all major backend modules.
- Collaborated with DBAs to optimize PostgreSQL queries and restructure indexing strategies for client data retrieval APIs, resulting in a 60% reduction in average response times for key endpoints used by advisors.
- Worked alongside DevOps engineers to build and monitor CI/CD pipelines via GitLab CI and SonarQube, introducing code quality gates and pipeline checks that decreased production defects by 25%.

**LTIMindtree, Bangalore, India** **Feb 2022 – Jul 2023**  
**Full Stack Developer**

- Engineered and maintained enterprise-grade microservices using Java, Spring Boot, and Hibernate for processing high-volume credit card transactions and fraud alerts, achieving over 6 million weekly transactions with 99.97% system uptime and full PCI-DSS compliance.
- Built secure login flows by integrating JWT-based authentication, Spring Security, and OAuth2 SSO with Active Directory, significantly improving audit traceability and reducing unauthorized access incidents by 65% in internal banking tools.
- Applied server-side business logic for internal reconciliation modules, integrating with financial APIs and handling asynchronous event queues, boosting real-time visibility into financial reporting.
- Migrated legacy JSP-based modules to Spring MVC and React hybrid interfaces, streamlining client onboarding flows and reducing front-end code maintenance by 40% across internal customer management systems.
- Optimized SQL queries and Hibernate Criteria APIs for payment validation and balance tracking, improving query performance by 45% and decreasing RDS CPU utilization by 30%, especially during month-end reconciliation loads.
- Collaborated with DevOps engineers to manage Kubernetes deployments using Helm charts and readiness probes, achieving zero-downtime rollouts for critical services even during high-volume credit settlement windows.
- Streamlined 40+ test cases using JUnit, Mockito, and Postman, enabling parallel regression testing across QA and staging environments, reducing testing cycles from 5 days to 1.5 days, and improving release velocity.
- Configured and deployed microservices to AWS using EC2 and S3, setting up IAM roles, logging pipelines, and CloudWatch alarms, which improved infrastructure observability and reduced incident response time by 35%.

**Hexaware Technologies, Bangalore, India** **Sep 2020 – Jan 2022**  
**Full Stack Developer**

- Participated in the complete Software Development Life Cycle (SDLC), from requirement analysis and design to testing, deployment, and post-production support for a HIPAA-compliant hospital management system used by over 200 medical professionals.
- Designed and deployed GraphQL APIs for insurance validation, prior authorization checks, and coverage eligibility, reducing manual backend validations by 60% and improving front-office workflow speed for administrative staff.
- Transitioned tightly coupled monolithic Java EE code into modular Spring Boot microservices, separating clinical notes, appointments, and patient billing into independent services to improve release flexibility and reduce deployment rollback issues.
- Architected responsive web interfaces using React.js, Redux, and Bootstrap to display real-time patient dashboards, prescription histories, and appointment details, increasing clinician efficiency and mobile usability during hospital rounds.
- Formed and maintained over 300 JUnit and Mockito test cases covering patient intake, claim reconciliation, and discharge processing modules, resulting in over 93% test coverage and minimizing regression issues during monthly release cycles.
- Tuned complex PostgreSQL queries and optimized Hibernate mappings for insurance claims and prescription data modules, improving data access latency by 45% and reducing cloud database compute costs by nearly 20% in production.
- Established end-to-end CI/CD workflows using GitHub Actions and Docker for application containerization, integrated with SonarQube for automated code quality enforcement, leading to a 35% faster testing and release process.
- Integrated both RESTful and GraphQL APIs to support external insurance systems and internal care coordination modules, improving system interoperability and data accessibility between third-party billing partners and clinicians.

### EDUCATION

**Master of Science in Computer Science** | Saint Louis University, St. Louis, MO