Sravanthi Panga

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GitHub | LinkedIn

PROFESSIONAL SUMMARY

- 6+ years of experience as a Software Engineer specializing in full-stack development and back-end systems and processes, with a strong focus on developing and maintaining cost systems and ensuring seamless API integration with local databases.
- Proven expertise in structured software development processes, applying best practices to deliver quality and consistency across projects while collaborating effectively with product and engineering teams.
- Hands-on experience in Node.js and Next.js/React, with a solid understanding of SQL and model/ORM tools, particularly PostgreSQL; also strong in Java 17/21, Spring Boot, Python, TypeScript, Apache Kafka, and AWS/Azure cloud environments.
- Skilled in designing fault-tolerant systems with a focus on security and scalability, incorporating OAuth2, OpenID Connect, and JWT authentication; experienced with HL7/FHIR-based integrations for healthcare claims intake and review in HIPAA-regulated environments.
- Experienced in customer implementation and problem-solving using advanced technologies, including Palantir Foundry data integration, ontologies, and model orchestration.
- Demonstrated ability to create mobile-responsive UIs that function seamlessly across various browsers and devices; recognized for technical leadership and mentoring capabilities.

SKILLS

Programming Languages: Java 17, Java 21, JavaScript, SQL, HTML, CSS, TypeScript, Python, React, PySpark
Frameworks and Libraries: Spring Boot 3, Spring Framework 6, Spring MVC, Spring WebFlux, Spring Security, OSDK, Apache Kafka, Node.js, Next.js, React, Bootstrap
API Development: REST API Design, OpenAPI, Swagger, API Versioning, Contract-First APIs, OAuth2, OpenID Connect (OIDC), JWT
Microservices and Architecture: Microservices Architecture, Distributed Systems, Event-Driven Architecture, Saga Pattern, Outbox Pattern, Circuit Breaker Pattern, Resilience4j, Service Discovery, Kafka Streams, Kafka Connect, Distributed Transactions, Idempotent Consumers, Exactly-Once Processing, At-Least-Once Semantics, Retry and Backoff Strategies, Data Consistency Models
Data Management: PostgreSQL, MySQL, NoSQL Databases, DynamoDB, Cassandra, MongoDB, Database Indexing, Query Optimization
Cloud Technologies: AWS, Amazon EKS, Amazon ECS, Amazon RDS, Amazon MSK, Azure AKS, Azure Key Vault, Google GKE
Containerization and Orchestration: Docker, Kubernetes, Helm, CI/CD Pipelines, GitHub Actions, Jenkins, GitLab CI
Infrastructure as Code: Terraform, Cloud Networking, Infrastructure as Code, Monitoring and Alerting, Centralized Logging
Monitoring & Logging: OpenTelemetry, Distributed Tracing, Prometheus, Grafana, Centralized Logging, Structured Logging, Monitoring and Alerting, Incident Response
Testing and Quality Assurance: Unit Testing, Integration Testing, Contract Testing, Testcontainers, JUnit, Mockito, Performance Testing, k6
Soft Skills: Technical Leadership, Communication, Problem-Solving, Collaboration, Adaptability, Critical Thinking, Time Management, Stakeholder Management, Conflict Resolution
Performance Optimization: Performance Tuning, Latency Optimization, High Availability Systems, Scalability Engineering, Fault Tolerance, Data Consistency Models, Retry and Backoff Strategies

WORK EXPERIENCE

Bamboo Health

Software Engineer - Jun 2026 to Present

- Design, code, and debug production-quality full-stack features for customer-facing healthcare software and web services using Java, Spring Boot, React, and TypeScript.
- Deployed and supported applications in AWS cloud environments, leveraging cloud-native and serverless services to improve scalability, reliability, and operational efficiency.

- Build frontend interfaces in React.js backed by Java services with PostgreSQL, and contribute to a separate project using Kotlin and JavaScript.
- Implemented OAuth 2.0 and other authentication and authorization mechanisms, including role-based access control (RBAC) and token-based security, to protect sensitive application data and ensure secure user access.
- Leverage Sumo Logic for centralized log aggregation and analysis, building dashboards and proactive alerts that improve visibility into service health and accelerate troubleshooting of production issues.
- Partner closely with the Product team to translate healthcare workflows into high-performing software.
- Build responsive web pages with HTML/CSS that match given designs; develop and integrate RESTful web services.
- Apply SQL and relational database design fundamentals across PostgreSQL and MySQL-backed services.
- Contribute to system design discussions and help shape scalable, maintainable architectural patterns.
- Improve observability through logging, metrics, dashboards, and alerting best practices.
- Plan and execute unit and functional tests to ensure changes meet requirements.
- Use AI-assisted tools responsibly to accelerate debugging, log analysis, and code generation.
- Deploy and operate containerized services on AWS and Kubernetes; collaborate in sprint planning to improve estimation accuracy and development flow.
- Participate in code reviews and sprint ceremonies, upholding high standards of design, implementation, performance, and security.

Technologies Used: Java, Spring Boot, React, TypeScript, , OAuth2, JavaScript, Kotlin, HTML/CSS, SQL, PostgreSQL, MySQL, AWS, Kubernetes, AI-assisted dev tools

Context4 Healthcare - Naperville, IL

Full Stack Developer - Jan 2025 to May 2026

- Engineered robust back-end systems using Java 21 and Spring Boot 3, enhancing API performance and ensuring seamless integration with PostgreSQL databases.
- Deployed and supported applications in AWS cloud environments, leveraging cloud-native and serverless services to improve scalability, reliability, and operational efficiency.
- Modernized an internal CEO application using Java 18, Spring Boot, and PostgreSQL, improving backend performance through query optimization and indexing. Implemented unit and integration testing and leveraged GitHub workflows for source control, code reviews, and collaborative development.
- Collaborated with cross-functional teams, including application build teams and stakeholders, to design and implement RESTful APIs for seamless data sharing, ensuring compliance with healthcare messaging protocols like HL7 FHIR.
- Collaborated with cross-functional teams to design fault-tolerant systems, implementing automated recovery strategies and ensuring high availability through Resilience4j and Circuit Breaker Pattern.
- Developed RESTful APIs with OpenAPI and Swagger, applying OAuth2 for secure authentication and authorization, resulting in improved user experience and data protection.
- Implemented CI/CD pipelines using GitHub Actions and Docker, streamlining deployment processes and reducing release time by 30%.
- Optimized database queries and indexing strategies in PostgreSQL, achieving a 25% reduction in response time for data retrieval operations.
- Facilitated code reviews and mentoring sessions, promoting best practices in software development and enhancing team collaboration.
- Designed user interfaces with HTML/CSS and Bootstrap, ensuring mobile-responsive layouts that cater to diverse user needs across devices.
- Conducted performance testing using JMeter and k6, identifying bottlenecks and implementing solutions that improved system throughput by 40%.
- Led the migration to Jakarta EE, modernizing legacy applications and enhancing maintainability and scalability of the codebase.
- Monitored application performance using Prometheus and Grafana, establishing SLOs and SLAs that improved incident response times by 20%.

Technologies Used: Java 21, Spring Boot 3, PostgreSQ, Docker, GitHub Actions, Resilience4j, Circuit Breaker Pattern, OpenAPI, Swagger

Optum Global Solutions - Hyderabad, India

Associate Software Engineer - Feb 2021 to Nov 2023

- Developed microservices architecture using Java 17 and Spring Framework 6, facilitating distributed systems that improved scalability and fault tolerance.
- Developed 6 core functional screens for the GEMMA enterprise platform at Optum using Java 18, Spring Boot, React, RESTful APIs, and Tailwind CSS Modules, implementing secure role-based access, optimized database interactions, and HIPAA-compliant workflows to support high-volume dental claims processing.
- Utilized Palantir Foundry to integrate and transform healthcare datasets, including HL7/FHIR-based claims data, build data pipelines, and develop workflow-driven applications, improving data accessibility, analytics, and operational efficiency in healthcare systems.
- Modernized the Atrium application by replacing the legacy JavaScript front-end with an Angular-based architecture, improving rendering efficiency, introducing reusable UI components, and reducing technical debt.
- Integrated event-driven architecture with Apache Kafka and Kafka Streams, enabling real-time data processing and enhancing system responsiveness.
- Collaborated with product teams to create user-centric applications, applying agile methodologies to ensure timely delivery and high-quality outcomes.
- Implemented API versioning and Contract-First APIs, ensuring backward compatibility and seamless upgrades for existing services.
- Utilized Redis caching to optimize data retrieval processes, resulting in a 30% decrease in latency for frequently accessed data.
- Executed infrastructure as code using Terraform, automating the provisioning of cloud resources on AWS and enhancing deployment efficiency.
- Conducted unit and integration testing with JUnit and Mockito, ensuring code reliability and reducing defect rates in production.
- Engaged in stakeholder management, effectively communicating project status and aligning development efforts with business objectives.
- Enhanced security measures by implementing OWASP API Top 10 guidelines, ensuring compliance and protecting sensitive data.
- Participated in knowledge-sharing sessions, fostering a culture of continuous learning and technical excellence within the team.

Technologies Used: Java 17, Spring Framework 6, Apache Kafka, Redis, AWS, Terraform, JUnit, Mockito, API Versioning, Contract-First APIs

Phoenix Global - Hyderabad, India

Software Engineer - Aug 2019 to Feb 2021

- Developed and maintained back-end services using Java and Spring MVC, ensuring efficient interaction with NoSQL databases such as MongoDB.
- Collaborated with front-end developers to create cohesive user experiences, leveraging HTML/CSS and CSS frameworks for responsive design.
- Implemented automated testing strategies using Testcontainers, enhancing code quality and reducing manual testing efforts.
- Engaged in performance tuning and latency optimization, achieving a 20% improvement in application response times.
- Assisted in the migration of legacy systems to cloud-based environments, utilizing AWS services to enhance scalability and reliability.
- Conducted root cause analysis for production incidents, implementing corrective actions that improved system stability and user satisfaction.
- Participated in agile ceremonies, contributing to sprint planning and retrospectives to enhance team productivity and project outcomes.
- Documented technical specifications and user guides, ensuring clear communication of system functionalities to stakeholders.
- Supported database indexing and query optimization efforts, resulting in improved data access speeds and overall system performance.
- Mentored junior developers, providing guidance on best practices in software development and fostering a collaborative team environment.

Technologies Used: Java, Spring MVC, MongoDB, AWS, Testcontainers, HTML/CSS, Agile, Performance Tuning, Root Cause Analysis, Query Optimization

CERTIFICATIONS

- SQL Foundations - Microsoft
- Amazon Web Services - AWS Cloud Technical Essentials

- Azure AI and Healthcare Cloud Fundamentals - Microsoft
- Foundations of AI and Machine Learning - Microsoft

EDUCATION

Masters in Computer Science | Northern Illinois University | 3.38 GPA
Bachelors in Computer Science Engineering | Gandhi Institute of Technology | 8.94 GPA