

Satya Sai Kumar Dwarapureddy

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 3+ years of professional experience building scalable, high-performance enterprise applications. Expertise in backend development (Java, Spring Boot, Python), modern frontend technologies (React, TypeScript, Angular), and cloud infrastructure (AWS). Proven track record delivering measurable results: 25% performance improvement, 30% deployment efficiency gains, and systems serving 10,000+ daily users. Strong foundation in microservices architecture, RESTful API design, database optimization, and DevOps practices. AWS Certified Developer with Master's in Computer Science. Passionate about solving complex technical challenges, collaborating across teams, and delivering customer-focused solutions.

TECHNICAL EXPERTISE

Languages: Java, Python, JavaScript, TypeScript, SQL, C#, Go (learning)

Backend Frameworks: Spring Boot, Spring MVC, Hibernate/JPA, Node.js, Express.js, Flask, Django

Frontend Technologies: React, Angular, TypeScript, HTML5, CSS3, Redux, Material-UI

Databases: PostgreSQL, MySQL, Oracle, SQL Server, MongoDB, Redis, Elasticsearch

Cloud & DevOps: AWS (EC2, RDS, S3, Lambda, CloudWatch), Azure, Docker, Kubernetes, Jenkins, CI/CD

Tools & Practices: Git, Maven, Gradle, Agile/Scrum, TDD, Microservices, RESTful APIs, gRPC

Architecture: Microservices, Service-Oriented Architecture, Event-Driven Design, Distributed Systems

Additional Skills: Data Structures, Algorithms, System Design, Performance Optimization, API Design

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant – Computer Science

Lawrence Technological University

June 2024 – April 2025

Southfield, MI

- Taught object-oriented programming, data structures, and algorithms to 50+ graduate and undergraduate students
- Mentored students in software development best practices, debugging techniques, and code optimization strategies
- Developed automated evaluation systems using Python for assessing student code submissions at scale

Software Engineer

Firstzen Solutions Private Limited

Jan 2022 – Dec 2023

Hyderabad, India

- Led migration of Honda's Global Production Control System (GPCS) from legacy Servlets/Struts to Spring Boot microservices architecture serving manufacturing facilities globally
- Engineered high-performance RESTful APIs and backend services using Java Spring Boot handling 10,000+ daily users and 100,000+ requests per hour during peak periods
- Optimized application performance achieving 25% reduction in API response latency through query optimization, database indexing, and Redis caching implementation
- Improved deployment efficiency by 30% by designing and implementing CI/CD pipelines using Jenkins, Docker, and automated testing frameworks
- Developed full-stack features using React and Angular frontends integrated with Spring Boot backends and PostgreSQL databases
- Designed scalable API contracts and microservices architecture enabling seamless integration across distributed services and third-party systems
- Implemented database optimization strategies including query tuning, indexing, connection pooling, and data model refinements across PostgreSQL, MySQL, and Oracle
- Deployed and managed applications on AWS cloud infrastructure (EC2, RDS, S3, Lambda) with Kubernetes orchestration
- Maintained production systems with 99.9% uptime through on-call support, proactive monitoring, incident response, and root-cause analysis
- Collaborated with cross-functional teams (Product, QA, DevOps, Operations) in Agile environment delivering features in 2-week sprint cycles
- Conducted code reviews, technical design discussions, and mentored junior developers on best practices and architectural patterns
- Implemented comprehensive testing strategies achieving 90%+ code coverage with JUnit, Mockito, integration tests, and end-to-end testing
- Received company award for outstanding contribution to GPCS migration project and technical leadership

Java Developer

Firstzen Solutions Private Limited

May 2021 – Dec 2021

Hyderabad, India

- Developed enterprise Java applications using Spring Framework, Hibernate ORM, and RESTful web services
- Built database access layers and optimized SQL queries for relational databases (MySQL, Oracle)
- Participated in Agile ceremonies and collaborated with senior developers on feature implementation

KEY PROJECTS

Enterprise Microservices Platform

| Java, Spring Boot, React, PostgreSQL, AWS, Docker, Kubernetes

- Architected and developed scalable microservices platform serving 10,000+ users with event-driven communication
- Implemented RESTful APIs with comprehensive error handling, retry logic, and circuit breaker patterns
- Deployed on AWS using Docker containers and Kubernetes for auto-scaling and high availability
- Achieved 25% performance improvement through systematic optimization and caching strategies

Full-Stack Web Application

| Python, Flask, MongoDB, React, TypeScript

- Built production-ready web application with Python Flask backend and React TypeScript frontend
- Designed NoSQL data models and implemented efficient querying patterns in MongoDB
- Containerized application using Docker and deployed on cloud infrastructure with CI/CD automation

Real-Time Analytics Dashboard | Node.js, Express, React, Redis, WebSockets

- Developed real-time data processing pipeline handling streaming analytics with sub-second latency
- Implemented caching layer using Redis for high-frequency data access patterns

EDUCATION

Master of Science in Computer Science

Lawrence Technological University

Relevant Coursework: Advanced Algorithms, Distributed Systems, Database Management, Software Engineering

Graduated December 2025

Southfield, Michigan

Bachelor of Technology in Electronics and Communication Engineering

Anil Neerukonda Institute of Technology and Sciences

June 2018 – June 2022

Visakhapatnam, India

CERTIFICATIONS & ACHIEVEMENTS

AWS Certified Developer – Associate | Amazon Web Services

Oracle Certified Professional: Java SE Programmer | Oracle Corporation

Company Award | Outstanding Contribution to GPCS Migration Project | Firstzen Solutions (2023)