Nikhil Sai Marri

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PROFESSIONAL SUMMARY

Software Engineer with 3+ years experience building full stack applications using Java, Spring Boot, React, and cloud platforms. Have worked on microservices that handle over 100K users, improved application performance significantly, and set up CI/CD pipelines that made deployments much faster. Comfortable working with AWS and Azure, databases like PostgreSQL and MongoDB, plus recently been integrating AI features into applications.

WORK EXPERIENCE

Software Engineer, MyAtlas Health, Boston, MA, USA   August 2025-Present

- Working on a healthcare platform built with React and Spring Boot that handles patient records for around 15,000 patients daily, made the data loading about 40% faster by optimizing queries and adding Redis cache
- Built out several microservices (8 total) deployed on AWS ECS which helped the system handle way more traffic during busy times, we're maintaining 99.9% uptime now
- Developed REST APIs that connect with Epic's FHIR system for healthcare data - these serve about 200 concurrent users with response times usually under 300ms
- Set up Jenkins pipelines with Docker which cut our deployment time from like 2 hours down to around 15 minutes, now we can push updates 3-4 times a week
- Implemented OAuth 2.0 authentication using Spring Security to protect patient data, the system now supports over 50K users
- Integrated GPT-4 API to help automate clinical documentation - doctors are spending about 35% less time on charting, processes roughly 500 notes each day
- Tuned PostgreSQL performance through indexing and query optimization, average query time went down by more than half.

Software Engineer, Wipro, Hyderabad, India   May 2022 -Dec 2023

- Built enterprise web apps using Java Spring Boot and Angular for large clients, these applications were used by around 100,000+ people daily across multiple countries
- Created over 25 RESTful APIs with Spring MVC that mobile and web apps consume, maintained about 99.5% success rate on API calls
- Helped migrate an old monolithic app to microservices using Spring Cloud, this ended up saving around $8K per month on server costs and made deployments much smoother
- Worked with Apache Kafka for real-time data streaming that handles over 1 million events per hour with pretty low latency (under 2 seconds)
- Put together automated testing using JUnit and Mockito, got code coverage up to 85% which really helped reduce bugs in production by almost half
- Worked in an Agile team with 7-8 other developers, we delivered 12 major features across several sprint cycles
- Set up Docker containers and worked with Kubernetes for deployments, this reduced the time to set up new environments from a few days to just a couple hours
- Did a lot of MySQL optimization work including query tuning and connection pooling which improved overall performance by about 30%.

Software Engineer Intern, Wipro, Hyderabad, India   Mar 2021 -May 2022

- Built responsive UI components using React and Redux for an internal dashboard that around 500 employees use daily
- Wrote automated test scripts with Selenium which saved the QA team about 20 hours of manual testing every sprint
- Created Python scripts to automate report generation for business metrics, this saved roughly 15 hours of manual work each week
- Participated in code reviews and learned a lot about maintaining code quality standards
- Helped with an AWS migration project where we moved 5 applications to EC2 with no downtime.

PROJECTS

Job Matching Platform with AI *[link](#)*

React, Node.js, Python, Spring Boot, PostgreSQL, AWS Lambda, OpenAI API

- Built a job recommendation system that uses GPT-4 to analyze resumes and suggest relevant jobs
- Set up the backend with Spring Boot and created separate services in Node.js and Python for resume parsing and matching logic

- APIs handle around 1,000 requests daily with average response time of 250ms, deployed everything on AWS Lambda for auto-scaling
- Database design in PostgreSQL stores about 10K job listings and user profiles with proper indexing
- Setup CI/CD using GitHub Actions and Docker for automated deployments to AWS ECS
- Used Langchain for semantic search which made job matching about 40% more accurate compared to just keyword matching

Online Store Microservices App *link*
Tech Stack: Spring Boot, Angular, MongoDB, Redis, Kafka, Kubernetes, Jenkins
- Designed an e-commerce platform with 6 different microservices (Product, Order, Payment, User, Inventory, Notification) that can handle around 5,000 concurrent users
- Used Kafka for event-driven order processing which cut the order fulfillment time in half
- Built the frontend with Angular and Material-UI, improved page load times by a couple seconds
- Deployed on Kubernetes with auto-scaling to handle traffic spikes during sales
- Integrated Stripe for payments with 99.8% success rate on test transactions
- Added Redis caching for product catalog which reduced database hits by 60% and made things noticeably faster.

DevOps Pipeline Setup *link*
Jenkins, Docker, Kubernetes, Terraform, AWS, SonarQube
- Used Terraform to automate AWS infrastructure setup (VPC, EC2, RDS, S3), brought setup time down from 4 hours to about 10 minutes
- Built full CI/CD pipeline in Jenkins with automated testing, code quality checks through SonarQube, and Docker builds
- Configured Kubernetes deployments with health checks and rolling updates so we could deploy without downtime
- Added monitoring using CloudWatch and ELK stack to track application metrics.

TECHNICAL SKILLS
- **Languages**: Java, Python, JavaScript, TypeScript, SQL, HTML5, CSS3
- **Frontend**: React.js, Angular, Vue.js, Redux, Next.js, Bootstrap, Material-UI, Tailwind CSS
- **Backend**: Spring Boot, Spring MVC, Spring Security, Hibernate, RESTful APIs, Microservices, Node.js
- **Databases**: PostgreSQL, MySQL, MongoDB, Redis, Oracle
- **Cloud & DevOps**: AWS (EC2, S3, Lambda, RDS), Azure (App Services, Functions), Docker, Kubernetes, Jenkins, GitLab CI/CD, Terraform
- **Testing**: JUnit, Mockito, Selenium, Jest, Postman
- **Tools & Frameworks**: Git, Maven, Gradle, Apache Kafka, RabbitMQ, Elasticsearch, GraphQL
- **AI/ML**: TensorFlow, OpenAI API, Langchain, RAG, Prompt Engineering.

EDUCATION
Master's in Cybersecurity(Computer Science), University of Central Missouri, MO, USA (3.54 CGPA)January 2024 – December 2025
Bachelor of Technology in Mech Engineering, Anits, Visakhapatnam, India (3.48 CGPA)   July 2019 – May 2022
CERTIFICATIONS
- Microsoft Certified: Azure Developer Associate
- Programming, Data Structures and Algorithms using Python, NPTEL

ACHIEVEMENTS
- **Star Performer Award** – Wipro Q3 2023 for consistently delivering features ahead of sprint deadlines and mentoring junior developers
- **Top 10 Finalist** – University coding competition (2024) among 120+ participants, solved algorithmic challenges in Java and Python