Spoorthi Basu

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PROFESSIONAL EXPERIENCE

Software Engineer, Genesys Cloud Services, March 2021 – Present | www.genesys.com

- Scaled fault-tolerant Kafka microservices to 10M+/day via partitioning/rebalancing, cutting latency by 25%.
- Achieved 99.99% uptime through multi-region active-active failover and circuit breakers (Resilience4j).
- Built 5K+ RPS REST APIs (Spring Boot/Redis) with cache sharding, reducing DB load by 50%.
- Designed event pipeline (Java/Kafka) processing 50K+/day via batch optimization, improving throughput by 45%.
- Collaborated cross-functionally with PM/QA to deliver 10+ features, increasing daily active users by 25%.
- Automated CI/CD (Bitbucket/Docker) with parallelized builds, preventing 15+ production incidents.
- Mentored a junior engineer on distributed systems, halving onboarding time while maintaining 15-min P0/P1 SLA.

Software Engineer, Coding Minds, July 2020 – February 2021 | www.sharemyworks.com

- Developed academic system (React/Java/Node.js) deployed on Heroku, serving 500+ daily active users.
- Built RESTful APIs (Java/Spring) with MySQL CRUD operations, achieving 95% test coverage via Postman.
- Led full SDLC from requirements to deployment using Agile/Scrum, delivering 3 major releases.
- Enhanced React performance using memoization and lazy loading, improving page load speed by 30%.
- Implemented automated testing for full-stack workflows, catching 20+ critical bugs pre-production.

TECHNICAL SKILLS

- **Languages & Frameworks:** Java, Python, JavaScript, SQL, C++, Spring Boot (MVC, JPA), React
- **Cloud & Distributed Systems:** AWS (EC2, DynamoDB, ElastiCache, SQS), Apache Kafka, Redis, REST APIs
- **DevOps & Testing:** Docker, Terraform, Jenkins, CI/CD, JUnit, Mockito, Testcontainers, LocalStack
- **Tools & Monitoring:** Git, Maven, Postman, Swagger, New Relic, Sumo Logic
- **Core Concepts:** System Design, Distributed Systems, Object-Oriented Design (OOD), Test-Driven Development (TDD), Data Structures & Algorithms

EDUCATION

Master's in Computer Science, California State Polytechnic University Pomona (May 2020) - GPA: 3.66

Bachelor's in Computer Science, Dr. Ambedkar Institute of Technology, India (June 2018) - GPA: 4.0

TECHNICAL PROJECTS

E-commerce Order Processing | Link

- Architected Spring Boot order services with ACID-compliant MySQL for concurrent transactions.
- Developed REST APIs supporting both single and bulk operations with idempotency for reliable processing.
- Deployed on AWS (EC2/RDS/Docker) with multi-AZ redundancy, designed for high availability.
- Implemented OpenAPI documentation (Swagger) with standardized HTTP status codes and response formats.
- Engineered observability via Log4j tracing with request-scoped correlation IDs, reducing debug time.

Automated Clinical System for General Check-ups web application | Link

- Developed a clinic appointment system (Java/JS/MySQL) with location-based doctor search and booking.
- Deployed on AWS, handling 500+ monthly booking requests with 99.9% uptime.
- Built ACID-compliant backend (JSP/JDBC/MySQL) with secure patient record storage and transaction integrity.
- Provisioned infrastructure on AWS EC2 with Amazon RDS (MySQL) for high availability under concurrent load.
- Created responsive frontend (HTML/CSS/JS) with lazy loading, improving page load speed by 30%.

Machine Learning – Hair and Skin Segmentation analysis (Kaggle Competition) | Link

- Created a linear regression model to determine accuracy of the Boston dataset using algorithms such as Gradient Descent, Stochastic Gradient Descent with an accuracy of 83% using Google Colab.
- Developed deep autoencoder using U-NET model for hair and skin segmentation using Keras, tested it on Celeb-A dataset using Python, Keras, Numpy, scikit-learn.