

# Spoorthi Basu

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## SUMMARY

Software Engineer with 4+ years scaling distributed systems (10M+ requests/day, 99.99% uptime) using Java, Kafka, Spring Boot, and AWS. Delivered 45% faster throughput and 25% higher DAUs through event-driven architecture.

## PROFESSIONAL EXPERIENCE

**Software Engineer**, Genesys Cloud Services, March 2021 – Present | [www.genesys.com](http://www.genesys.com)

- Scaled 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](http://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](#)

- Developed order microservices using Spring Boot, Spring JPA, Spring IOC, MVC design pattern to deal with single and bulk orders from the users and designed new schema with MySQL and deployed using AWS.
- Used Swagger to document endpoints, along with using appropriate HTTP and status codes and containerized the services using Docker and utilized Log4j for logging and tracing java code.

**Automated Clinical System for General Check-ups web application** | [Link](#)

- Conceptualized, designed, developed and deployed the website on AWS for a clinic, which enabled the patients to view doctors near-by based on their pin code and take appointments.
- Developed using Java, JavaScript, HTML, CSS, and JSP, with JDBC to connect to MySQL for record storage.

**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.