

# Geetha Krishna Mannava

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## PROFESSIONAL SUMMARY

Skilled Azure AI Engineer and Data Scientist, Redis Certified Software Developer with 2+ years of experience in optimizing microservices and web applications. Contributed to a major US pharmaceutical company's software development, reducing defects by 30%. Proven ability to accelerate data access, enhance front-end performance, and increase testing coverage. Eager to bring expertise to impactful software projects.

## SKILLS

<b>Languages:</b>	Java, Python, C++, JavaScript, SQL, HTML, CSS
<b>Frameworks and Libraries:</b>	Spring, Spring Boot, Hibernate, React, Angular, Redux, Express, jQuery, Bootstrap, Junit, Mockito
<b>Databases and Cloud Platforms:</b>	MySQL, MongoDB, AWS, Azure, GCP, Docker, Kubernetes, Serverless computing, Jenkins, Jira
<b>Web Services and APIs</b>	RESTful, GraphQL, AJAX, JSON, XML
<b>Platforms/Operating Systems:</b>	Windows, Linux, MacOS, Android, iOS
<b>Tools:</b>	Figma, VS Code, Spring Tool Suite, Eclipse, IntelliJ IDEA

## WORK EXPERIENCE

### Software Engineer | Cognizant – Hyderabad, India

Aug 2021 – Aug 2022

- Developed a secure payment processing module using Java EE for a major **US-based pharmaceutical company**, which processed over 2 million transactions totaling more than \$100M, achieving a **remarkable uptime of 99.99%**.
- Minimized the **timeline delays by 15%** in collaboration with cross-functional teams by following agile scrum methodologies to optimize project requirements resulting in a significant **reduction of project development costs by 20%**.
- Made key contributions in refactoring the legacy applications to modern Java frameworks, achieving a **20% performance increase** and reducing **operational costs by \$500,000 annually**.
- Ameliorated data access speed and management efficiency in RESTful microservices by incorporating Dependency Injection, Spring Data JPA, and Redis for caching mechanisms resulting in a **20% faster retrieval** and a **15% boost in efficiency**.

### Junior Software Engineer | Cognizant – Hyderabad, India

Aug 2020 – Aug 2021

- Leveraged AWS Lambda to automate the testing and validation of Spring Boot microservices, **boosting testing efficiency by 25%** and significantly reducing the manual effort.
- Achieved **15% reduction in page load times** by optimizing the front-end angular code that **curtailed end-user frustration by 11%**.
- Enhanced **test coverage from 78% to 89%** by assisting the testing team in implementing extensive unit and integration tests using JUnit and Mockito that resulted in a 20% reduction in critical bugs found during QA testing.

### Full Stack Techno Functional Consultant | KAAR Technologies – Chennai, India

Mar 2020 – Jul 2020

- Revamped Customer, Vendor ERP Portals in Angular, enhancing user interface and experience, resulting in a **12% boost in user engagement** while showcasing the functionalities of Sales and Distribution (SD) and Functional Accounting (FI) modules.

## EDUCATION

- Master of Science in Computer Science** | University of South Florida – Tampa, FL  
GPA: 4.0

Aug 2022 – May 2024

## PROJECTS

### E-commerce Platform | Spring Boot, Redis, MERN stack

- Incorporated Spring Security for role-based access control and OAuth2 for secure authentication and authorization, resulting in a **50% reduction in security-related incidents**.
- Implemented Elasticsearch for product search and Redis for caching, leading to a **40% increase in search functionality efficiency** and a 25% improvement in overall platform performance.

### Smart Grocery Management Application, MERN stack

- Automated grocery shopping lists creation by tracking the expiration dates of the products, resulting in a **reduction of food items wastage by 81.25%**.
- Boosted **user satisfaction level by 57%** by integrating user feedback from surveys, addressing their requirements and concerns that resulted in a 37% increase in adoption of our application over their existing conventional methods.

### Retail Banking System | Spring Boot, AWS, Angular

- Utilized Spring Security, JWT for secured authentication, authorization of the application and implemented a synchronous transaction service, achieving **99.99% uptime for seamless banking transactions**.
- Leveraged Continuous Integration, Continuous Deployment (CI/CD) pipelines to deploy **5 dockerized microservices** into AWS ECR, orchestrated the containers using AWS ECS, integrated Lambda functions and S3 for optimized cloud infrastructure.
- Ensured code quality, obtained **code coverage of 85%**, documented APIs using SonarQube, EclEmma and Swagger.

## CERTIFICATIONS

- [Azure Data Scientist](#) • [Azure AI Engineer](#) • [Redis Certified Developer](#) • [Architecting with Google Compute Engine](#)