

# VENKATA SWARAJ KOTAPATI

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## EDUCATION

### Arizona State University, Tempe, Arizona, USA

Aug'23 – Mar'25

Master of Science in Computer Science

GPA : 4.1/4.0

**Coursework::** Distributed Systems, Cloud Computing, Advanced Operating Systems, Human Computer Interaction

### Jawaharlal Nehru Technological University, Hyderabad, India

Jun'18 – July'22

Bachelors of Technology in Computer Science Engineering - 4 Times National Scholarship Awardee

GPA: 8.24/10

**Coursework::** Artificial Intelligence, Data Structures and Algorithms, Compiler Design, Object Oriented Programming

## WORK EXPERIENCE

### NCR Corporation

July'22 – July'23

Software Engineer 1 - Java, Javascript, Spring Boot, C#, NodeJS, ReactJS, SQL, REST, Microservices, AWS Hyderabad, India

- Key contributor to NCR's flagship 'Activate Enterprise' software, facilitating **millions of transactions** daily across **800K+ global ATMs**. Valuable contributor to the development of a cutting-edge large-scale **SaaS** ATM Terminal Management application 'NeoMesh,' **easing** the lives of **7.5K** service engineers
- Drove cross-functional efforts with design teams to fix **45+ critical** design issues in Spring Boot, NodeJS, React ensuring a high standard UI for **90+ banks worldwide**, including PNC and Chase, delivering seamless user experience.
- Engineered a bookmarking feature using Java, Spring Boot, REST APIs, SOAP, NoSQL query optimizations that remarkably slashed search times of **800K+ ATMs** by **more than 80%**, **easing** lives of over 7.5K service engineers.
- Decomposed **35+ microservices** in Java, deployed on AWS-hosted Kubernetes clusters, achieving **70% improvement** in response and reduced database load times with advanced optimized SQL indexing and query refactoring.
- Enhanced code quality** through 250+ functional, manual, unit and regression tests using TDD, BDD practices across ReactJS - Cucumber, Jest, J2EE, Spring Boot Test identifying 50+ bugs. Ensuring robust high-performance across **5,000 ATMs** globally, with a focus on **end-user experience** and reliability.

### NCR Corporation

Jan'22 – July'22

Software Intern - Java, Javascript, Spring Boot, Go, Python, REST, Microservices, AWS, Docker, JSON Hyderabad, India

- Collaborated with **30+ cross-functional** teams in an **Agile Scrum SDLC**, driving a 20% reduction in time-to-market and boosting client satisfaction by optimizing microservices architecture, enhancing system scalability.
- Managed CI/CD pipelines** with Git CLI and GitHub Actions, ensuring high-performance delivery and **reducing downtime by 30%**, leveraging **Docker**, Kubernetes, and cloud technologies to streamline deployments.

## PROJECTS

### Real-Time Distributed Video Processing | Message queue, Distributed Systems, Docker, SQL, Microservices [GitHub](#)

- Developed a high-concurrency, real-time distributed video processing system using Kafka, MongoDB, and Docker to handle large-scale data streams with 201ms alert latency and **85% confidence** on the UCF-101 dataset using ResNet50, ensuring seamless high-performance. Integrated fault-tolerant microservices for asynchronous processing and a real-time ReactJS and D3.js dashboard, visualizing throughput and latency metrics with **2ms update latency**.

### Rapid Accident detection & Response App | Java, Kotlin, ReactJS, SOAP, REST APIs, JSON, NoSQL [GitHub](#)

- Engineered a real-time **emergency response** application using accelerometer and GPS sensors to detect collisions with **100ms latency**, integrated a Fuzzy Inference System for precise collision probability analysis, ensuring reliable asynchronous communication with emergency responders in **high-concurrency** use cases using REST APIs.

### IMDB Movie Database Web Clone | React, NodeJS, Angular, Responsive UI, Elastic Search, SQL, AWS Cloud [GitHub](#)

- Designed a full-stack responsive web application showcasing a library of **250,000+ movies**, TV shows, and anime in 350+ languages, focusing on scalable architecture and intuitive UI/UX principles. Optimized database queries for low-latency content retrieval on release dates, cast, awards, and ratings, **achieving 99.9% uptime** in high traffic cases.

## RECOGNITIONS

Leetcode **Top 4.2% DSA** coders worldwide , Smart India Hackathon Runner up, **Top 10%** Google Guide, IELTS **8 Band**

## TECHNICAL SKILLS

**Languages:** C, C++, C#, Java, Scala, Python, SQL, Kotlin, Rust, Go, Ruby, Redux, Swift, PHP

**Frameworks :** .NET Core, Spring boot, maven, Blazor, Docker, Kubernetes, NodeJS, GraphQL, Kafka, DynaTrace

**Web Development:** HTML, CSS, JavaScript, TypeScript, React, Angular, Vue, AngularJS, Bootstrap 4

**Tools :** JIRA, Jenkins, GitHub, Spark Data pipelines, Gherkin, Cucumber, Kafka, Splunk, Apache Tomcat, Windows

**Skills :** Front end, Backend, end-to-end, web development, video editing, frontend, graphic design, OWASP Top 10

**Project Management :** Agile, Scrum, Rapid Development processes, Confluence, Bamboo

**Misc:** Excellent written and verbal communication skills. Designed 250+ creative wallpapers, story writer and videographer.