HarshaVardhan Mupparaju

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Education

Arizona State University — **Aug 2022 - May 2024**
Masters in Software Engineering, Tempe, Arizona — *CGPA 4.0*

National Institute of Technology Warangal — **Aug 2015 - May 2019**
B.Tech in Electronics & Communication Engineering, Warangal, India

Technical Skills

Languages: Python, Java, Javascript(ES6), Typescript, C++, SQL
Frontend: React, Angular, HTML, CSS, jQuery, Knockout.JS, Bootstrap
Other Tools and Technologies: SpringBoot, Django, MYSQL, Amazon Web Services, Kafka, Redis Cache, Micro-services, RESTful API, CRUD, CI/CD, Node.js, Hibernate, Jenkins, Tomcat, Maven, Docker, MongoDB, Neo4j, Figma, Git, Postman, Agile, SonarQube, Jest, Cucumber,Junit.

Work Experience

Oracle Financial Software Services — **Aug 2021 – June 2022**
Associate Applications Engineer — *Banglore, India*

- Crafted **React** UI pages that optimized Use Case creation for product owners, slashing the duration from 15 minutes with **Postman** to just 5 minutes.
- Enhanced real-time insight processing by 70% and cut **Amazon DynamoDB** costs by employing caching with **Redis**.
- Employed **AWS Lambda** and **S3** for batch insight processing, targeting lower-priority insights by publishing them to a **Kafka** topic and for tracking the insight journey post saving in Amazon Dynamo DB.
- Developed retry functionality in **Java** for Error topics to ensure recovery of insights from Kafka, avoiding data loss.
- Leveraged SonarQube to boost code coverage and quality. Utilized Cucumber for crafting acceptance test cases.
- **Skills Utilised:**Python, Java, Django, Spring Boot, React, Javascript, AWS, Redis Cache, Kafka, Jenkins, JUnit.

CGI Inc. — **July 2019 – July 2021**
Software Engineer — *Banglore, India*

- Developed **REST API** services and utilized JMS queue for dynamic processing of 2 million transactions daily, improving risk analysis for SWIFT, FEDWIRE, NACHA, and SEPA protocols.Tested and validated the application using **Junit**.
- Enhanced UI performance using code-splitting and lazy loading, achieving a 30% reduction in initial load times.
- Introduced "Good Guy" feature to specifically address and minimize false positive transactions efficiently.
- Implemented L1 and L2 message workflows with reusable scripts, reducing creation time from 15 minutes to one.
- Successfully resolved over 200 client-reported issues, leading to a 20% reduction in client complaints.
- **Skills Utilised:** Java, Spring Boot, React, Javascript, JDBC, Hibernate, MySQL, JMS , Jenkins, Git, JUnit.
- **Member Evaluation Framework** - Developed from scratch an MVP for a comprehensive skill management tailored for internal teams, significantly streamlining tasks that previously required manual input to just 10 minutes.
- Created 15 screens in **Figma** and implemented them in **Angular**. Utilized visualisation charts to track member progress using **Amazon QuickSight**. Leveraged **Neo4j** for seamless recommendation and addition of new skills.
- Integrated coding platforms like METTL, HackerRank, Codility using **micro-services** and **REST API** protocols.
- **Skills Utilised:** JavaScript, Java, HTML, CSS, Angular, SpringBoot, Neo4j, Tomcat, MySQL, AWS, Git, MongoDB.

Academic Projects

Smart Driving Assistant

- Developed a mobile application that enhances road safety by leveraging smartphone sensors to monitor driver behaviors in real-time, offering speed alerts, crash detection, and gamified rewards for safe driving.
- **Skills Utilised:** React Native, Javascript,Expo CLI, Node.js, Firebase, TomTom API, Git, Figma.

Hybrid Cloud Smart Classroom Assistant

- Developed cloud-based smart classroom assistant for efficient video processing and face recognition from classroom footage using AWS Lambda and tested the system to successfully processes 100 requests in a minute.
- **Skills Utilised:** AWS Lambda, Amazon S3, DynamoDB, OpenFaaS, Kubernetes, Ceph, Python, Docker

Honours and Awards

- Received the **Key Contributor Award** at CGI in recognition of my contributions and achievements within the team.