KARTHEEK NADELLA

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EDUCATION

MS in Computer Science   Sep 2021 - Dec 2022
New Jersey Institute of Technology   Newark,NJ
BS in Computer Science   Jun 2014 - Apr 2017
P.B Siddhartha college of arts & Science   Vijayawada,India

TECHNICAL SKILLS

Languages: Java, Python, SQL, HTML, CSS, JavaScript
Databases: MySQL, MongoDB
Frameworks: Servlets, **Spring:** Core, MVC, Boot, REST, SOAP, Flask, React
Testing Frameworks: Junit, Mockito, PostMan
Tools: Spring Tool Suite (STS), PyCharm, Visual Studio, Docker, GIT
Cloud: Amazon, Azure, Heroku

WORK EXPERIENCE

Software Programmer   Feb 2023 - Present
Marlabs LLC   Piscataway, New Jersey
Technologies: Java,Spring,MongoDB, HTML, React, Docker, GIT,Agile Methodologies
- Programmed custom **React components,** services and integrated with spring forms for a Banking group over 3M customers
- Created the **Micro-service** architecture using Spring Boot-based services, leveraging REST and Apache Kafka to enable seamless communication and scalability; reduced system response time by 30%
- Engineered the implementation of **OAuth2** token-based authorization with Spring Security reduced security vulnerabilities and increased overall system reliability for 1.5M+ user transactions annually
- Conducted unit, integration testing using **JUnit** & **Mockito** to surpass the test coverage to 55%. Used **PostMan** for testing API's
- Containerized application using **Docker**, implemented **CI/CD** pipeline using **Jenkins**, reducing deployment time by 50% and enhancing development process

Graduate Research Assistant   Aug 2022 - Dec 2022
New Jersey Institute of Technology   Newark, New Jersey
New Jersey Institute of Technology – Graduate Research Assistant Newark, New Jersey
Technologies: Python, HTML, CSS, JavaScript, Json, Tableau, Docker
- Involved in the website development based on a ML algorithm using path generation of a project by the US Department of Defense to Predicts and generates 35 ship routes
- Streamlined a RESTful API integration with the **AXIOS** library to generate optimal shipping routes based on weather and marine data; improved route efficiency by 30%

Software Engineer   Dec 2017 - Aug 2021
Infosys Limited   Newark, New Jersey
Technologies: Java, Python, HTML, CSS, JavaScript, React, GIT, Agile Methodologies
- Developed 10+ front-end web interfaces and components using **React** for a logistics business with over 10 million users
- Managed asynchronous HTTP requests and API interactions using **AXIOS**, resulting in a 40% reduction in data retrieval and update time
- Created token-based authentication using JWT, HTTP requests to handle multiple jobs over a time and prevented page refresh by using React Router thereby reducing load of application by 17%
- Designed video verification services using REST APIs; reduced customer complaints by 40% and increased process efficiency.
- Streamlined API documentation process using **SWAGGER**, resulting in a 30% decrease in documentation errors
- Involved in the production deployment, documentation activities & worked in the **Agile team** of 10 & Collaborated with cross-functional teams to develop solutions by utilizing Git for version control to manage code repositories

ACADEMIC PROJECT

ONLINE COMPUTER STORE | Java, React, HTML, CSS, MySQL, Heroku
- Designed web-based application: online computer store includes built-in-features like choosing product, adding product to cart and payment functionalities of size 100 customers
- Built Database connection using JDBC-MySQL Connector and used Heroku for deployment which reduce the local machine load by 50%

SECURE PROFESSIONAL API | Python, Flask, HTML, CSS, SQL, Heroku, SWAGGER-API
- Optimized the token refresh process for JWT and managed token blacklist feature with manual and automated testing; decreased login time by 15% and decreased server load by 20%
- Restructured response object by incorporating HATEOAS and refactoring legacy code; resulted in a 20% increase in API response