Nikhilesh Muppaneni

Software Engineer

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Education

Blekinge Institute of Technology,Sweden *Karlskrona, Sweden*

Master's in Software Engineering *Jan 2021-june 2023*

- **Relevant Courses**, Research Methodology,Usability Interaction Design, Decision Support System, Software Metrices, Agile and Lean Methodology,Advanced Topic in Computing, Advanced Topic in Software Engineering, Software Quality Management.

Jawaharlal Nehru Technological University *Hyderabad, India*

Master's in Software Engineering *Aug 2015-2019*

- **Relevant Courses**, Research Methodology,Usability Interaction Design, Decision Support System, Software Metrices, Agile and Lean Methodology,Advanced Topic in Computing, Advanced Topic in Software Engineering, Software Quality Management.

Skills

Languages	JavaScript, Python, Java, C#, Visual Basic, PHP
Frameworks	Django, React, Angular, Flask
DevOps Tools	Docker,Kubernetes,Jenkins, Google Cloud Platform, Terraform, AWS and Git
Database	MySQL, Mongo-DB(Relational and Non-Relational data base)
Other	MS Office,AWS,Web-pack,TCP/IP, UDP/IP,HTTP / HTTPS,SonarQube,Junit,Rest API Git and Github

Experience

EMERSON-Rosemount Tank Radar *Göteborg,Sweden*

Software Engineer *Aug 2022 - April 2023*

- Transforming Console Application (.net Frame-work)into User Friendly WPF and windows forms Based on Requirements. **Digitizing the traceability** of the product which fetches from the **Microsoft SQL Server.**
- **Feature Updating and Maintenance** of the Production Software GMS(Global Manufacturing System).
- Backtrack When an incorrect order is placed, investigate into the product's traceability in the Microsoft database.
- Implemented new feature on Measuring Range of **Embedded Tank Gauging Equipment (5900S)** in which it detects the microwave and measures with the assistance of a laser (calibration Measuring distance) to determine the precise position of the microwave echo, and an **automated csv file** is created to determine the location values.
- Technologies/Tools: **C#** ,java , visual basic, WPF and Window Forms , .Net framework, SQL and Git.

Sparly *Stockholm, SWEDEN*

Junior Developer-Cloud Intern *jan. 2022 - june. 2022*

- Developed the **Business goals** into responsive website and mobile application.(Created responsive, accessible, and beautiful layouts)
- Implemented user Email Authentication(using PIN) logic in **React front-end and java-backend** using MongoDB as persistent storage.
- App Maintenance and 24/7 support given on new Version Realise days to trouble-shoot the issues
- Collaborated with Team and to write code, fix bugs, provide **infrastructure to cloud.** and Used Postman to monitor and **test APIs**.
- Technologies/Tools: React ,Java,Docker, AWS(elastic cloud instance for back-end), Manual testing and Git.

TONMETRI INFO SOLUTIONS *Hyderabad, INDIA*

Developer Intern *May. 2019 - Aug. 2019*

- My task is to write and style the **front-end components** that fit the needs of our mocks and **user stories**.
- In addition, I also monitor and process pull requests for production deployments. Example projects: web based User Interface for Sampan's click as online photography website, Music player application and **Deployed project to AWS**.
- Technologies/Tools: HTML/CSS,Javascript,Typescript,Bootstrap,Jquery, AWS and Mysql

Indian Institute of Technology Hyderabad *Hyderabad, India*

Intern-workshop *Dec. 2018 - Feb. 2019*

- Implemented a robust algorithm to determining the permutations of distinct objects without repetition.
- Used Data structures as core and later used Latin squares of order N.
- Technologies/Tools: C,C#, Visual Studio Express.

Projects

Online Polling Application-Full Stack

- The application was developed in **Java Spring Boot as a Back-end and React.js as a front-end.**
- I have gained experience in understanding on build tools like **Maven** and package managers like **NPM**.
- Building **Rest APIs** for creating Polls, voting for a choice in a Poll, retrieving user profile etc. Configuring **Spring Security** along with JWT authentication to Building Rest APIs for Login and SignUp.
- Created a **Docker File** for the software components and **CI/CD pipeline** has created to Deployed Them in EC2 instance in AWS
- Tools and Tech:Java,Spring-boot,Docker,Jenkins,MySQL,maven,junit test, and Git.

Contributed to Opensource Software

- Maintenance Tasks are performed on the "Specmate" software basically it is a **Web-based Modeling and Test-Generation Tool**. The identified **code-smells and Bugs** have been resolved. As part of the software's development, a desired new feature is created. Performed CI/CD To do Automation Testing along with Running **SonarQube to identify** the bugs and code-smells
- Tools and Tech: Java, Docker,Sonarqube,Angular and Rest API

CI/CD Automation using Jenkins

- **Containerization Application:**The project's goal is to build and execute Docker images for Flask, Node.js, and **implement Micro-services Architecture** - Currency Exchange and Currency Conversion on Docker
- The Next objective is to use Jenkins to create a CI/CD pipeline Automation. This pipeline runs **unit tests, integration tests Automatically** and build,push the **Docker image of Micro-service** to Jenkins pipeline.
- Tools and Tech: Java,Python, Docker,Kubernetes,Flask Nodejs,Maven,Jenkins,junit testing,Cucumber-BDD tool and Git.

DevOps Automation using GitLab-CI |

- Developed Node.js and dotNet **Micro services** applications and Automated the Pipeline to builds, Test, and Deployments(to virtualized and containerized cloud environments) through a simple configuration of GitLab CI.
- Build software by **Integrating Test and Quality checking** into the development process and validate the automated build infrastructure fully under control.
- Tools and Tech: Javascript,Ngnix,Ansible,Terraform,

Evaluated the Maintainability of "Jabref"

- This report evaluates the Maintainability of Jabref, an open sourced cross-platform reference and citation manager written in java. The **last 10 releases of Jabref are analyzed** to identify the packages difficult to maintain using a Goal Question Metric(GQM) based empirical study.
- The results demonstrate packages with poor maintainability followed by validation of the findings in comparison with maintainability index.

Project On AWS—Sparly Stockholm

- React application was Developed and deployed to the AWS Elastic Compute Cloud. A separate cluster was created for the database, and AWS Cloudfront was utilized for content delivery network, as well as AWS Cloud Watch to monitor the application and extract Metrices.
- Tools and Tech: AWS services like EC2,IAM,cloud watch

Student Management System using JAVA Spring Boot

- Developed an web application which **full fills the requirements** like student information, attendance, marks, etc.
- Technologies used: java, Spring boot, Hibernate, React JS, RestAPI.

Awards and Certifications

- **Student Coordinator ICCII-2017**:Conducted and Maintained all the Events and Presentations of Springer's Publication..
- Real-Time Chat Application– Group messaging can be done.selected as one of the best Project in Expo
- Complete Boot-Camp on **full-stack Web Development**, Udemy.
- Contributed to Open-source Software **Specmate**.