

# Dikshitha Karanam Madhusudhanprasad

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**Career Objective** — To work in an organization as a Software Engineer where I can excel in the field and dedicate my time for development of organization, which in turn provides self-development, and work satisfaction.

## Skills

**Tools and IDE :** STS, Eclipse, IntelliJ, SQL Developer, VScode, Postman, Open Lens, Jenkins, Winscp

**Technologies :** REST APIs, DBMS, Spring Boot

**Languages :** Java, Python, SQL

**Management Tools :** Git, Github, Rally

**Soft Skills :** Time Management, Public speaking, Teamwork, Problem Solving, Leadership

## Experience

### Optum, United Health Group

Jun 2022 – Jul 2024

*Software Engineer*

- Developed web services using RESTful APIs for healthcare data, using **Spring framework**
- Integrated Java service to database using **JDBC** and persisted healthcare records by writing **Spring JPA** and batch queries. Experience in database CRUD operations
- Performed debugging and troubleshooting of existing software programs in **Jenkins**
- Performed functional, unit and integration tests using **JUnit**
- Experience in Software Engineering Life Cycle Models like **Agile Methodologies**. Participated in design meetings, code reviews and sprint planning sessions

### IEEE Student Branch

Sep 2019 - Sep 2021

*Secretary/Executive*

- Successfully conducted and participated in IEEE YESIST12 (Youth Endeavours for Social Innovation using Sustainable Technology), IEEE CONNECT (International Conference on Electronics, Computing and Communication), IEEE XTREME and IEEE 5G Summit
- Conducted events and workshops within and outside campus. Space Jam at We Works, Python Bootcamp, Talk on Embedded Systems are few to name.
- Successfully partnered with other student branches in R10 region for IEEE SYWL (Student Young Professional Women in Engineering Life member)
- Successfully inaugurated a new student branch society - IEEE SIGHT (Special Interest Group on Humanitarian Technology)

## Education

### Indiana University Bloomington

Expected in May 2026

*Masters of Science in Computer Science*

- Courses: Applied Algorithms, Computer Networks, Software Engineering

### Amrita School of Engineering Bengaluru

Aug 2022

*Bachelor of Science in Electronics and Communication Engineering*

- 8.91/10 GPA
- IEEE Student Chapter member - Received special recognition for my contribution as Secretary of IEEE SB
- Received Distinction for publishing Joint Cross-talk avoidance and error control coding technique for Network on chip Links - Thesis

## Projects

### Optum Projects

*Anthem project and Member BV project- Spring, Java, SQL*

- Back-end Development responsible for processing Anthem health records for providers across US. Responsibilities involved developing REST API and testing by loading files in Winscp

*Inventory Management - Boot-camp*

- Mini project responsible for the back-end development of the inventory (BUY, SALE, INVENTORY repos) to get hands-on features like Exception Handling, SQL queries, JUnits, Swagger Integration, Jenkins pipelines etc. at the initial stages.

### Bachelor's projects

*Density based traffic light designing (Simulated Version)- MATLAB, Image processing*

- Developed GMM model coupled with dilation, erosion and blob analysis to scan the vehicles to reduce traffic congestion near signals.

*Joint cross-talk avoidance and error control coding technique for Network on Chip Link- Modelsim, Verilog*

- Implemented an ECC which is combination of extended Hamming code (22,16) and standard triplication with self-calibrated voltage scaling unit.