

Karthik Malasani

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EDUCATION

Northeastern University, MA

Aug 2022 - Present

Master of Science in Information Systems (Software Engineering)

Coursework- Application Engineering & Development, Data Management and Database Design, Web Development, Program Structures and Algorithms, Object-Oriented Design.

RNS Institute of Technology, India

Aug 2016 - Aug 2020

Bachelor of Engineering in Information Science and Engineering

Coursework- Operating Systems, Cloud Computing, Data Structures, OOPs, Machine Learning, Web development.

TECHNICAL SKILLS

Programming Languages: Java, C, C++, Python, Javascript

Web Technologies: HTML5, CSS, JavaScript, Node.js, React, jQuery, Bootstrap, RESTful APIs

Backend Technologies: Spring MVC, Spring Framework, Servlets, RESTful web services, SpringBoot, Node.js

Tools/Frameworks: GitLab, Docker, Tableau, Power BI, Jenkins, IntelliJ, Hibernate, VScode, Azure, AWS

Database Systems: MySQL, NoSQL, Oracle DB, Postgre SQL, MongoDB, SQL Server, JDBC, JSON

PROFESSIONAL WORK EXPERIENCE

Accenture, Bangalore, India | Associate Software Engineer

Nov 2020 - Aug 2022

- Co- developed and deployed **SpringBoot** microservices & **RESTful** web services for a leading US based healthcare consortium, resulting in **30% quicker response** times with an overall **99+% uptime**.
- Achieved **80%+ Spock code coverage** using **JUnit testing**, reducing migration time by 20%. Optimized data migration processes by developing and executing **SQL queries** (Oracle DB).
- Maintained code quality via **SonarQube metrics**: >90% code coverage, fixed bugs, code smells, security hotspots & removed duplicate code.
- Migrated numerous on-premise **microservices** to **Azure** cloud to increase application availability, resulting in **40% uptime improvement** and yielding rebates of \$200K.
- Leveraged thread pooling for optimal CPU utilization, boosting application performance by 40% through task parallelism.
- Orchestrated **CI/CD pipeline** in **Jenkins**, optimizing automation process & **reducing workflow turnaround time by 50%**.
- Improved data retrieval by **26 mins/session (52%)** by designing complex SQL queries for **Open-link Systems (Endur v11)** as part of **DBA team**.

Vision Digital India, Bangalore, India | Intern

Jun 2019 - Sep 2019

- Hands-on approach towards **J2EE Design patterns Multithreading, Locking, Serialization, Collections** and **Generics**.
- Implemented the database connectivity using **JDBC with MySQL database** as backend. Built a **personal project (Cinema booking system)** implementing JavaFX, ArrayLists, interfaces, HashMap, etc. under mentor guidance.

ACADEMIC PROJECTS

HuskyFinder (MySQL, PowerBI, React)

- Designed a complex ER-diagram to build a platform to manage students' needs which includes a PowerBI dashboard.
- Built a complete database using MySQL with Procedures, DML Triggers, Data encryption, UDFs, non-clustered indexes.

Airline E-Commerce Website (SpringBoot, Dependency Injection, Bootstrap, CSS, Spring-Data-JPA)

- Created a website for an Ecommerce airline web application using Spring boot, Spring data JPA(ORM) and MySQL.
- Created a REST API to serve an integration layer for flight check-in micro-service with reservations check-in.

NGO Management System (Java Swing, MySQL, JDBC)

- Built a Java Swing Application constituting cross enterprise workflows with live e-mail, print and analytical features.
- Implemented CRUD operations into the system with Java Swing (MVC) for UI/backend.

Fantastic Fitness (React, Express, Node.js, MongoDB)

- Built a fitness platform implementing four distinct integrated workflows including a chatbot and e-commerce page.
- The platform enables users to select diet plans, workout regimes, fitness challenges, purchase equipment and interact with a chatbot. Incorporated CRUD into every workflow to provide flexibility to the user.