

KARTHIK M

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Website: <https://karthikmudike.github.io/My-Portfolio/>

SUMMARY

Experienced **Full Stack Developer** with 2+ years of experience in web design, specializing in Angular for frontend and Spring Boot for backend solutions. AWS Certified, with expertise in integrating AI and Cloud services to enhance application performance.

EDUCATION

Master of Science (M.S.) in Information Systems
Saint Louis University, St. Louis, MO, USA

Aug 2023 – May 2025
CGPA: **3.86** / 4.00

WORK EXPERIENCE

Tata Consultancy Service (DaVita)
Role: Software Engineer

Nov 2021 – Sep 2023
Denver, CO, USA

- Collaborated with senior developers to build comprehensive dashboards for patients, doctors, and administrators, improving user engagement by 30%.
- Conducted cross-functional integration between frontend, web architecture, and relational databases (MySQL, PostgreSQL, MongoDB), accelerating efficiency by 70%.
- Engineered and optimized robust RESTful APIs to ensure seamless communication between the front-end (Angular, React, JavaScript) and back-end services (Spring Boot, Hibernate, JPA), achieving 100% functionality and reliability.
- Applied best practices in API security (OAuth2, JWT) by code optimization and unit testing (JUnit, Mockito), which boosted performance by 85%.
- Addressed collaboration with the DevOps team for CI/CD pipelines (Jenkins, Docker, Kubernetes) and managed version control using Git and GitHub.

PROJECTS

AI-Integrated Hospital Website (Git: https://github.com/karthikmudike/AI_Hospital_Website)
Role: Software Engineer

- Developed a Java Full Stack application using Angular, TypeScript, HTML, CSS, and Bootstrap for a responsive frontend and Spring Boot with Core Java for the backend, enabling seamless data retrieval through RESTful services, improving application performance by 25%.
- Enhanced application performance by 80% by integrating an AI chatbot using OpenAI APIs, delivering medicine information in JSON format to improve customer accessibility and understanding.
- Achieved 100% scalability and effective communication between the front and back end using Restful Services. Used SQL to store data systematically and dependably along with JPA and Hibernate and secured 100% of the application using JWT-based user authentication.
- Adapted advanced AI technologies and robust architectural patterns to deliver 100% innovative solutions, successfully deployed on GitHub and AWS using Apache Tomcat.

Kanban-Board Web Application (Git: https://karthikmudike.github.io/Kanban_Board/)

Role: Software Engineer

- Researched and designed an angular-based application using Agile Methodology as code logic, using Visual Studios as a code editor.
- Improved 95% task lifecycle management and user interface by implementing dynamic list manipulation, CRUD operations, Two-way data Binding, Dependency Injection, and Conditional Rendering using (NgIf /NgFor) directives.

Can you find the frog? Game (Git: https://github.com/karthikmudike/Frog_Game)

Role: Software Engineer

- Processed an interactive AngularJS web application using Components, Directives, Math library for randomization, Object-Oriented Programming for game logic, and DOM manipulation, which simplified 70% interactivity and deployed in GitHub for version control and troubleshooting.

SKILLS

- **Programming Languages:** C, Core Java, Python, C++
- Databases: RDBMS, SQL, MongoDB, MySQL
- Framework: Spring Boot, AngularJS, React, Bootstrap
- Web Services: HTML, CSS, JavaScript, TypeScript
- Development Methods: Agile, Project Management, Software Development Life Cycle
- Version Control System: Git, GitHub
- Tools: Jira
- Cloud Technologies: AWS, GCP, Azure
- IDEs: Eclipse, Visual Studio Code, IntelliJ IDEA

CERTIFICATES

1. Associate Cloud Developer by AWS (VN: e967f17a6e904efab3c7e32e9578e85e)
2. Java Developer by Hacker Rank
3. Endorsed in implementing Agile Methodologies
4. Problem-Solving by Hacker Rank
5. Accredited in Cloud Solutions Mastery by Saint Louis University