RISHIK KATAM
774-320-8972 | riskumar7@gmail.com| LinkedIn | Boston, MA

EDUCATION

Northeastern University, Boston, MA   Expected May 2024

Master of Science in Computer Science and Software Engineering Systems

Relevant Coursework: Object-Oriented Design, Web Design and User Experience Engineering, Program Structures and Algorithms, User Experience Design/Testing, Data Management and Database Design, Design Patterns

Vellore Institute of Technology, Vellore   May 2022

Bachelor of Engineering in Electronics and Communication Engineering with Specialization in Internet of Things and Sensors.

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Problem-Solving, Object-Oriented Programming, Mobile App Development, Cloud Computing and Information Security

TECHNICAL SKILLS

Languages	: C, C++, Java, JavaScript, Python, SQL, MATLAB, HTML5, CSS3
Frameworks	: Express, Mongoose, Node.js, React, Spring, Spring boot, Redux
Databases	: Oracle PL/SQL, MySQL, MongoDB, Postgres, SQLite
Cloud	: AWS- S3, EC2, RDS, CI/CD, Lambda, Thing Speak
Other-Tools	: Git version control system, JIRA, Virtual Box, Figma, Adobe XD, Balsamiq, Axure RP, Jenkins

WORK EXPERIENCE

TechCiti Technologies Private Limited   Bangalore, India

Software Developer Intern   May 2021-August 2022

- Collaborated with design team to optimize UI feature delivery using **Angular, Typescript** and **HTML, CSS and Bootstrap** resulting in 20% reduction in Home page load time.
- Involved in enhancing database performance of **MySQL** database by 20%, reducing redundancies, complete schema overhaul, creating new indexes to ensure quick query response.
- Provided ad-hoc support and feedback driven technical assistance to customers, leading to a 20% reduction in support calls and prompt issue resolution.
- Engaged in stakeholder meetings to gather requirements, aligning seamlessly with Software Development Process and Design Thinking Principles.

ACADEMIC PROJECTS

Bookstore management system | PL/SQL, Oracle SQL Developer, SQL Modeler   September 2023 – December 2023

- Analyzed books sale data based on region, publisher and other factors to generate reports.
- Achieved a 30% reduction in query response times through advanced **SQL** query optimization techniques.
- Defined multiple roles and provided access permissions to those roles according to business login requirement.
- Efficiently mapped tables, keys and designed **ER diagram** to easily fetch the data from the tables.

Go Shop E-Commerce Website | React.js, Express, Node.js, NoSQL-MongoDB, HTML, CSSS   September 2022 – December 2022

- Designed a responsive, mobile-friendly e-commerce site that has a consistent design using **React.js, Redux, Bootstrap, HTML5 ,** and **CSS3**
- Created Schemas for multiple data collections and leveraged **REST APIs** using **MVC** framework to interact with backend to perform **CRUD** operations using **node.js**, **express.js** and **MongoDB**.
- Application features 2 types of user roles [admin, user], and a guest/ anonymous user page
- The user credential data of two types of roles [Admin, user] are encrypted and stored in database to reduce security risk.

Pre School-Day Care | Java Swing, Java Spring Boot, Java, Maven, NetBeans   September 2022 – December 2022

- Developed a Day Care application using the **MVC** and **Factory Design Patterns** and Built the **GUI** components of application using **Java Swing**
- Designed and implemented a back-end system using **Java Spring Boot** and **H2 Embedded Database**
- Designed and implemented **RESTful APIs**, facilitating seamless communication between the frontend and backend components.

Car Rental System| HTML, CSS, Node.js, MySQL, NetBeans, Apache Tomcat, ThingSpeak, Node MCU   January 2022 – May2022

- Devised a fully responsive web-based application system for a car renting using **HTML, CSS, JavaScript,** and **jQuery.**
- Developed a **MySQL** database for efficient storage and retrieval of car and user information, contributing to fast query performance.
- Integrated **IoT** technology with **Node MCU** to enable emergency stop functionality, adding an extra layer of safety and security.
- Deployed the **ThingSpeak cloud** for analysis of the emergency stop feature therefore, improving performance by 10%.

ADDITIONAL INFORMATION

- Microsoft Azure Fundamentals Certification (Score: 866).
- Published Research paper on Traffic Sign Recognition and Classification using CNN in International Research Journal of Engineering and Technology (IRJET) (09/2021).
- Volunteering intern at Youth Empowerment Foundation (NGO)