

Anuradha Ramchandran

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EDUCATION

Master of Science in Computer Science - Purdue University (GPA: 4.0/4.0)

May 2024

Bachelor of Engineering in Computer Science - Dayananda Sagar College of Engineering

2022

SKILLS

Languages: C#, Python, SQL, JavaScript, Java, HTML, CSS

Databases and OS: MySQL, MS SQL Server, MongoDB, Linux

Technologies: Express.js, React, Node.js, Cypress, Docker, CI/CD (Git, Azure), AWS, Google Cloud Platform

Others: Data Structures, Algorithms, Object-Oriented Programming, Software Design Patterns, API Design, Operating Systems

EXPERIENCE

Software Development Intern

June 2023 – Aug 2023

[Parker Hannifin](#)

Buffalo, NY

- Developed an internal ASP.NET Core MVC application to automate printing, resulting in a 12% cost reduction.
- Refactored web APIs, documented CRUD operations and participated in code review sessions for codebase maintainability.
- Designed user-centric components with C# and UI mockups for a customer portal aimed at enhancing user experience.
- Reduced retrieval time by 10% by improving database integrity with SQL queries to handle redundancies and missing data.
- Took a lead in project discussions with Engineering and Customer Service teams and created dashboards with Power BI.

Full-Stack Web Development Teaching Assistant

Jan 2023 – May 2023

[Purdue University](#)

Fort Wayne, IN

- Evaluated and contributed to creating a semester plan for 50 graduate students studying MERN Stack (MongoDB, Express, Node, React), incorporating best practices like paired-programming, AGILE, and code reviews.

Software Engineer Intern

Mar 2022 – May 2022

[Cyient](#)

Hyderabad, India

- Created web services using C# and ASP.NET to integrate external systems with internal databases, optimizing data processes.
- Decreased page loading times by 15% by debugging application code in a paired-programming setup to detect bottlenecks.

PROJECTS

E-Commerce Application with Java and Spring Boot

Mar 2024

[GitHub Link](#)

- Developed an e-commerce website using Java and Spring Boot framework to write REST API calls, applying MVC architecture.
- Implemented product browsing, search functionality, purchasing and shopping cart management features.

Facebook Marketplace Clone with MERN Stack

Sept 2022 – Dec 2022

[GitHub Link](#)

- Built a student-friendly website using MERN Stack to replace limitations of using social media for interactions.
- Followed AGILE methodology by using Jira for task creation and tracking, and Git for version control.
- Created front-end mockups with Figma and implemented single-page application components with Node.js and React.
- Wrote REST APIs, integrated components for responsive content rendering and deployed with AWS EC2 and S3 instances.
- Automated testing using Jest for unit cases and Cypress for end-to-end cases for faster and continuous testing.

Chrome Extension-Based Recognition of SQL Injection Attacks

Mar 2021 – May 2022

[GitHub Link](#)

[Survey Paper Publication](#)

- Built a Chrome Extension with Python, JavaScript and Flask to detect SQL injection attacks, in an Ubuntu 22.04 container.
- Achieved 91% accuracy by combining random forest and deep neural network as an Adaptive Deep Forest model.