

Anuradha Ramchandran

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EDUCATION

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

expected May 2024

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

June 2022

SKILLS

Relevant Coursework: OOP with Java, Algorithms, Data Structures, Operating Systems, Network Security, Cryptography

Programming Languages: C# and .NET, Python, JavaScript, Unity, Java, C

Web Technologies: HTML, CSS, JavaScript, Node.js, Express.js, React, RESTful APIs, Jest and Cypress

Databases and Containerization: SQL (MySQL, MS SQL Server), Linux OS, NoSQL (MongoDB), Virtual Box, Docker

CI/CD and Miscellaneous: Git, Jira, Azure DevOps, Agile/SCRUM, Design Patterns and SDLC, Figma and Power BI

EXPERIENCE

Software Development Intern

June 2023 – Aug 2023

[Parker Hannifin](#)

Buffalo, NY

- Automated factory floor printing by creating a print wizard tool with .NET Core and MVC to reduce manual effort with SharePoint and Email by 20%.
- Boosted application performance by 7% by refactoring CRUD operations and optimizing DevOps workflows.
- Devised components and UI mockups for a customer service portal with a user-centric approach to improve user experience.
- Improved database indexing and management with SQL to enhance system efficiency by cutting down on retrieval time and errors.
- Increased marketing and engagement by 25% by designing visualizations and reports with SQL Server Reporting Services (SSRS), SQL Server Analysis Services (SSAS) and Power BI. Collaborated effectively with the team to achieve successful outcomes.

Full-Stack Web Development - Teaching Assistant

Jan 2023 – May 2023

[Purdue University](#)

Fort Wayne, IN

- Assessed and evaluated 50 students enrolled in the Graduate Level Web Development course, focusing on the MERN (MongoDB, Express, React, Node) stack. Guided and mentored students to promote better learning and growth.

Software Engineer Intern

Mar 2022 – May 2022

[Cyient](#)

Hyderabad, India

- Developed web services using C# and ASP.NET MVC, and SQL Server Integration Services (SSIS) to streamline data processes and decrease data processing latency.
- Optimized application code with refactoring and debugging to detect bottlenecks, resulting in a 15% increase in performance.

PROJECTS

Facebook Marketplace Clone with MERN Stack

Sept 2023 – Dec 2023

[GitHub Link](#)

- Built a user-friendly web platform addressing the limitations of relying on social media for student discussions, enabling seamless sharing of experiences, advice, and item trading.
- Implemented Figma, HTML and CSS to design frontend components, and Node, Express and React for backend components.
- Wrote REST APIs and integrated components to attain responsive and smooth server-side and client-side content rendering.
- Deployed the application utilizing AWS EC2 and S3 instances for scalable web application hosting.
- Automated testing by using Jest for unit test cases and Cypress for end-to-end testing, achieving 30% faster testing cycles and ensuring robustness in a test-driven development environment.

Chrome Extension-Based Recognition of SQL Injection Attacks

Mar 2021 – May 2022

[GitHub Link](#)

[Paper Publication](#)

- Developed a Chrome Extension with Python, JavaScript, Flask and Adaptive Deep Forest to detect and prevent SQL injection attacks in real-time.
- Achieved 91% accuracy by combining random forest and Adaptive Deep Forest neural network models to enhance detection.