Aishwarya Ramesh

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Experience

Graduate Research Assistant　　　　　　　　　　　　　　　　　　　　　　　Aug 2023 - Present
Old Dominion University - Department of Computer Science　　　　　　　　　　*Norfolk, United States*
- Designed and Developed University Portal system utilizing React.js for front-end interface, Node.js and Express.js for back-end API development, and MySQL for database management, resulting in an intuitive and efficient platform for students and faculty.
- Spearheaded the creation of a Digital Search Engine application using PHP, XAMPP, and SQL for database management, coupled with JavaScript, HTML, and CSS for front-end development. Additionally, integrated Elasticsearch and Kibana for enhanced search capabilities and data visualization.
- Led the development of a cloud-based web application hosted on AWS, employing React.js for front-end functionality, Node.js and Express.js for server-side logic, and SQL for database management. Utilized data visualization features and dashboards to enhance user engagement and streamline data analysis processes.

Systems Engineer　　　　　　　　　　　　　　　　　　　　　　　　　March 2021 - Jun 2022
Infosys　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Bangalore, India*
- Built automation solutions integrating applications using .NET MVC for AT&T, a US Telecom client, monitoring bots for error detection and reporting.
- Created responsive user interfaces with C# and stored procedures, improving user satisfaction by 15%.

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, R, SQL, NoSQL, C#, Java, PHP, C++
Front-end: React.js, Angular, HTML5, CSS3, Material-UI, Bootstrap
Back-end: Node.js, Express.js, .NET MVC, Spring Boot, REST APIs, Relational Database, Database Management Systems
Data Analysis and Visualization Tools: Statistical Analysis, Data Structures, Software Development Life Cycle, Tableau, Microsoft Excel, Pandas, NumPy, SciPy, tidyverse (dplyr, ggplot2), Matplotlib, Seaborn, Plotly, scikit-learn, TensorFlow, PyTorch
Other Tools and Technologies: Git, GitHub, GitLab, XAMPP, Postman, RESTful APIs, ORM, Cloud Computing (AWS), Object Oriented Programming, Software Design Patterns, JIRA, Figma, Power BI, OpenRefine, Elasticsearch, Kibana, Agile/Scrum Development

Projects

University Portal System | *React.js, JavaScript, Material-UI, Node.js, Express, MySQL*
- Executed front end with React.js, achieving 85% user satisfaction.
- Implemented efficient back-end functionalities with Node.js and Express.
- Integrated RESTful APIs for smooth communication and MySQL for data management.
- Utilized Git for version control to maintain a well-documented codebase.

VSorts | *React.js, JavaScript, Node.js, Express, MySQL, AWS*
- Designed cloud-based web app with React.js, achieving 20% increase in user engagement.
- Implemented intuitive user interfaces and advanced data visualization.
- Enhanced user adoption by 25% with user-friendly interface optimizations.
- Collaborated with stakeholders for 15% improvement in meeting objectives.

Digital Library with Search Engine | *Elasticsearch, Kibana, JavaScript, Bootstrap, jQuery, Laravel, XAMPP and PHP*
- Developed a Digital Library project aimed at enabling users to search for electronic theses and dissertations (ETDs), achieving a 85% search accuracy rate.
- Employed Elasticsearch for indexing, providing users with a user-friendly interface on the index page for ETD searches, thereby enhancing accessibility to academic resources.

GrabKnock | *php, Java, SpringBoot, MySQL, AWS*
- Built web app for online food ordering with advanced notification systems.
- Reduced order processing time by 30% for customers and restaurant operators.
- Managed end-to-end development lifecycle, ensuring adherence to timelines and quality standards.
- Provided ongoing support, leading to a 15% enhancement in platform performance.

Education

Old Dominion University　　　　　　　　　　　　　　　　　　　　　　Aug 2022 - May 2024
Master of Science in Computer Science (GPA: 3.65 / 4.00)　　　　　　　　　　*Norfolk, United States*
Visveswaraya Technological University　　　　　　　　　　　　　　　　　Aug 2016 - Aug 2020
Bachelor of Science in Information Science (GPA: 6.65 / 10.00)　　　　　　　　　　*Bangalore, India*