BALA CHRISTU RAJ GOPU

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SUMMARY

Innovative and detail-oriented software developer with a master's degree in computer science. Proficient in designing scalable tools and dashboards for data evaluation and system optimization. Experienced in collaborating with AI researchers and cross-functional teams to develop robust solutions for critical systems. Skilled in modern frameworks like React and Python and leveraging cloud infrastructure such as AWS for scalable deployment.

SKILLS

- Data Structures and Algorithms
- **Programming Languages:** JavaScript, TypeScript, Swift , HTML5, Ruby on Rails, Python, Java.
- **Frameworks & Tools:** React, Angular, Django, Flask, Cypress, Puppeteer.
- **DevOps:** CI/CD pipelines, Automation, Docker, Jenkins.
- **APIs**: RESTful APIs (development, integration, and testing)
- **Cloud Infrastructure**: AWS, Splunk.
- **Version Control:** Git, GitHub.
- **Databases:** PostgreSQL, MySQL, Oracle.
- **Soft Skills:** Team Leadership, Troubleshooting, Collaboration, Agile Methodologies.
- Software Development Life Cycle
- Data Visualization Platform: Power BI

EXPERIENCE

Web Developer, Part-time
University of Memphis | August 2022 – December 2022 | Memphis, TN

- Developed and optimized internal tools for evaluating application performance, improving efficiency by 51%.
- Designed dashboards to monitor CI/CD pipelines and deployment metrics, streamlining workflows for the university website.
- Defined automated workflows using Jenkins and Docker, enhancing deployment reliability and reducing downtime.
- Collaborated with researchers to identify and resolve system issues, ensuring compliance with organizational standards.

Graduate Junior Software Developer
Xlenz | January 2021 – April 2022 | Hyderabad, India

- Designed and implemented tools and dashboards using React JS for real-time system monitoring and evaluation.
- Troubleshoot and resolve root causes of system issues, improving reliability and reducing downtime by 30%.
- Collaborated with cross-functional teams, including AI researchers and backend developers, to develop scalable and secure APIs.
- Automated log analysis and data evaluation using Python and PostgreSQL, improving troubleshooting efficiency.
- Deployed applications to AWS and integrated monitoring solutions using Splunk,

ensuring optimal uptime and performance.

PROJECTS

Portfolio Website: (*Personal Project***): [Go to website](#)**

- Designed and developed a fully functional portfolio website using React JS, HTML5, and CSS to showcase projects, skills, and experience.
- Implemented responsive design principles to ensure seamless user experience across devices and browsers.
- Leveraged GitHub Actions for CI/CD processes, enabling automated deployment and efficient version control.
- Enhanced website performance by optimizing components, applying lazy loading, and utilizing efficient CSS management techniques.
- Hosted the website on GitHub Pages, ensuring high availability and ease of access for recruiters and potential collaborators.
- Focused on improving UI/UX through iterative feedback and testing, resulting in a professional and visually appealing interface.

Floral Essence website: *(Master's Project)*
- Designed and developed a responsive e-commerce platform for showcasing exquisite floral arrangements, offering users a seamless shopping experience.
- Built **using** Ruby on Rails**,** JavaScript, and **CSS**, integrating modern web design principles for intuitive navigation and visually appealing layouts.
- Implemented secure user authentication**,** enabling customers to create accounts, purchase products, and leave reviews to enhance social proof.
- Integrated RESTful APIs to manage real-time product inventory, pricing, and order processing efficiently.
- Developed a robust database schema to store user information, product details, and customer reviews, ensuring high performance and scalability.
- Conducted thorough testing and debugging to ensure cross-browser compatibility and mobile responsiveness.

iOS Application Development *(Coursera – Meta)*

• **Version Control**: Implemented robust version control practices using Git to ensure seamless collaboration and project tracking.
• **Programming Fundamentals in Swift**: Built a feature-rich iOS app using Swift, applying core programming principles and best practices for clean and maintainable code.
• **Swift UI Interface Creation**: Created seamless user experiences using Swift UI, building visually appealing layouts and efficient navigation.
• **Advanced Programming in Swift**: Optimized app performance, reducing memory usage and load times through advanced Swift programming techniques.
• **Working with Data in iOS**: Integrated efficient data handling and persistence techniques to seamlessly fetch, store, and manage information.
• **Mobile Development with JavaScript**: Leveraged JavaScript skills to complement iOS functionality and ensure smooth mobile development processes.
• **React Native & React Basics**: Gained foundational React skills and explored cross-platform app development techniques.

• **Capstone Project**: Delivered a fully functional iOS application that showcases comprehensive Swift, UI/UX design, and data management expertise.

Dating app: Swift iOS application

- Created using storyboard UI and implemented a clean, intuitive UI/UX with Swift UI to ensure a seamless and engaging user experience.
- Implemented secure user authentication and data storage using Core Data and Firebase, ensuring the privacy and security of user information.

Intra-Bundle *(Xlenz Project)*

- Built a React-based dashboard for monitoring project workflows, with real-time data integration and updates for ongoing evaluations.
- Enhanced system architecture and response times, enabling seamless collaboration across teams.
- Innovated system architecture enhancements to improve scalability and response times for high-load applications.

AI-Driven Fashion app

- Built a dynamic React-based e-commerce platform, integrating APIs for real-time data fetching and asynchronous operations.
- Improved front-end performance using advanced techniques like lazy loading and modular code structure.
- Enhanced the user interface and resolved usability issues, achieving a 15% improvement in overall app performance.

EDUCATION

Master of Science in Computer Science
University of Memphis | Memphis, TN | August 2024 | GPA: 3.15/4.0

- Relevant Coursework: Software Engineering, Algorithms, Machine Learning, Cryptography, Database Management Systems, Networking.

Bachelor of Science in Computer Science
Jawaharlal Nehru Technological University | Hyderabad, India | August 2022 | CGPA: 6.5/10.0

- Relevant Coursework: Data Structures, Artificial Intelligence, Object-Oriented Programming in Java, Cloud Computing, Machine Learning.

ABOUT ME

A passionate problem-solver and innovative thinker, I thrive in dynamic environments where collaboration and creativity drive success. With a strong commitment to learning and growth, I excel at turning challenges into opportunities while delivering impactful solutions. My focus on quality, adaptability, and teamwork ensures I consistently add value and exceed expectations.