VARSHITHA PALAKURTHI

📞 667-227-9609   ✉ vpalaku1@umbc.edu   in linkedin.com/in/varshithapalakurthi

Education

University of Maryland Baltimore County   **September 2022 – May 2024**
Masters in Computer Science — GPA: 3.8   *Baltimore, MD*
- Graduate Teaching Assistant for Advanced C++

Osmania University   **September 2017 – May 2021**
Bachelors in Computer Science — GPA: 3.47   *Hyderabad, India*

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, TypeScript, Scala, MySQL, PostgreSQL
Developer Tools: AWS Services and Technologies, VS Code, Eclipse, Git, Dbeaver, SSMS, Docker, Jenkins(CI/CD), Matlab, STS, IntelliJ, Android Studios, Jira
Technologies/Frameworks: AngularJS, ReactJS, JSON, Linux, GitHub, Test Automation - Selenium, Maven, WordPress
Software Developement Methodologies: Waterfall development, Agile Software development, Scrum

Experience

SS&C Technologies   **July 2023 – September 2023**
Technical Intern   *New york, US*
- Significantly influenced the Fundhub project's architecture and full-stack development from concept through deployment, ensuring adherence to agile and product design principles to boost user engagement.
- Enhanced the project's UI/UX and user engagement by 20% with Scala features and backend Java optimizations, employing advanced data structures and Maven for build automation. Also refined the downloadable Excel file by adding two columns, deepening the data insight available.
- Improved data processing speed by 30% enriching data records, showcasing advanced problem-solving skills. Prepared technical documentation and efficiently resolved issues through ticketing systems, aligning with best practices and trends in software development life cycle (SDLC).

SS&C Technologies   **January 2021 – June 2022**
Software Engineer   *Hyderabad, India*
- Developed frontend for the Sales Connect project, a real-time web application, with AngularJS and containerization, highlighting virtualization and API-driven design. This demonstrated strong version control practices, adaptability, efficient project management and compliance with web development standards.
- Specialized in website development by implementing interactive table functionality, optimized data processing algorithms for streamlined information retrieval, resulting in a 20% boost in user satisfaction with cross-functional team approach.
- Applied Root Cause Analysis for effective troubleshooting and leveraged automated testing via Selenium to enhance testing protocols, resulting in a 15% increase in bug resolution. This approach boosted user satisfaction by 20% and accelerated software validation processes by 25%.

SS&C Technologies   **May 2020 – August 2020**
Associate Software Engineer   *Hyderabad, India*
- Led end-to-end development of the Alert and Notification System, utilizing Java and AngularJS and developed comprehensive documentation for software features and testing protocols, ensuring seamless integration and efficient application performance with elements of product management.
- Designed an interactive dashboard that allows for user interaction, yielding a 40% enhancement in data visualization and simplicity of interpretation by employing GraphQL middleware for optimized data fetching and manipulation.
- Proficiently crafted PostgreSQL queries and applied regression analysis to forecast system load, optimizing queries for a 35% improvement in response time.

Projects

Homomorphic Encryption in Banking System (Osmania University) | *ReactJS, NodeJS, PostgreSQL*   **January**
- Engineered a highly secure and user-friendly banking platform utilizing web services and encryption algorithms. This project demonstrated cutting-edge architecture and communication skills, aligning with industry trends for secure transactions and data integrity, causing a 25% reduction in potential security threats.

Data Transfer using UDP protocol (Research Center Imarat - RCI) | *Python, UDP Networking*   **November**
- Utilized Python to collect and process continuous logs from an external device via the UDP protocol, improving acquisition efficiency by 30%. Implemented hardware integration for enhanced data collection. Organized information into clusters and saved cleaned records for future analysis, improving data management practices.