in LinkedIn

■ alla.nikhil.257@gmail.com

Education

University of South Florida - USF

Aug 2023 - May 2025

Master of Science in Computer System Analysis

Courses: Distributed Systems, Advanced Database Management, Cloud Solutions Architecture, Data Mining, Data Visualization

○ GitHub

Amrita Vishwa Vidyapeetham

Jul 2017 - Jun 2021

Bachelor of Technology in Computer Science & Engineering

Courses: Software Engineering, Data Structures, Design & Analysis of Algorithms, Object Oriented Programming, Operating Systems

Technical Skills

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

Frameworks/Platforms: .NET Core, ASP .Net MVC, Spring Boot, ReactJS, NodeJS, Chart.JS, ExpressJS, Flask, Maven, Bootstrap

Tools & DevOps: Git, GitLab, Power BI, Tableau, Docker, AWS (EC2, RDS), Azure App Services, Jenkins (CI/CD), SonarQube, Jira, Rally, Visual Studio, Visual Studio, PyCharm, Anaconda, Kafka, Linux, Postman

Experience

Optum Oct 2021 - Jul 2023

Software Engineer

Hyderabad, IN

• Led backend development of Optum's ELGS **SaaS** Application using **C#**, **TopDown CCM** and **MS SQL**, applying both functional programming and **object-oriented programming** techniques to enhance functionality, performance, and debugging capabilities.

- Architected a robust .NET Framework application with Swagger API integration, automating the cleanup of outdated PDF records and saving up to 50% approximately \$180,000 on NAS storage purchases.
- Secured RESTful API integration with token authentication, HTTP TLS 1.2, and JSON parsing for efficient data retrieval.
- Enhanced entity's microservices using .Net Framework & integrated **Kafka** enabling seamless communication with existing services.
- Optimized **SQL** queries and stored procedures, boosting performance and reducing loading times by **27%** for smoother operations.
- Automated CI/CD pipeline by integrating .NET code with **GitHub**, **Jenkins** and **SonarQube** for efficient builds, artifact management, and comprehensive code quality analysis.
- Deployed several new **production servers** and distributed components to reduce load on existing servers, enhancing our system's capacity to process up to **1,000,000 JSON / XML** records per day, transforming raw data into new letter templates.
- Leveraged **SonarQube** to enhance code quality and increase code coverage to **90%** through MSTest Unit Testing.

Cognizant Programmer Analyst Trainee

Mar 2021 - Aug 2021

Coimbatore, IN

- Engineered and optimized web applications with **Spring Boot framework**, leveraging its rapid backend development and **REST API** capabilities, alongside crafting a compelling user interface for optimal user experience.
- Integrated Spring Security with **JWT** for secure access and crafted dynamic, responsive UIs using **JSP** for Audit Management System.
- Containerized the app with **Docker** and set up CI/CD pipelines using **AWS CodeCommit** and **ECS Fargate**, cutting deployment time by **70%** and ensuring consistent environments.
- Engaged in **agile development practices**, contributing to **sprint planning**, daily stand-ups, and retrospectives, advancing project workflow iteratively and collaboratively.

Projects

Flavors Unleashed: A Taste Odyssey

Technologies Used

ASP .Net MVC, JavaScript, Chart.JS, MSSQL, Redis and Azure App Services

- Developed 'Flavours Unleashed', a sophisticated recipe book web application, utilizing ASP.NET; integrated Python-based predictive
 analytics to forecast user subscriptions and incorporated Chart. JS for dynamic data visualization enhancing engagement by 30%.
- Enhanced data efficiency by implementing Redis caching and managing an MS SQL database supporting 10,000+ active users.
- Deployed the app on Azure App Services using Visual Studio, ensuring high reliability and seamless updates, resulting in a 50% improvement in user satisfaction through user-centric design and iterative testing.

Rice Leaf Disease Detection

Technologies Used

CNN, ResNet50, TensorFlow, PWA, WebSockets, Python, Flask and Docker

- Developed a web platform using Flask and CNN to help remote farmers identify rice diseases in real-time and gain actionable insights.
- Fine-tuned model performance by training on domain-specific rice leaf disease images, achieving a 40% accuracy improvement through iterative testing and user feedback.
- Enhanced app performance and reliability by containerizing the Flask app with Docker, achieving 99% uptime and faster responses.

Exam Scheduling Management System

Technologies Used

React JS, Node JS, Express, MySQL, and AWS EC2

• Created a MERN stack web interface for over 10,000 students and teachers, simplifying exam schedule access and enhancing the educational experience through intuitive UI/UX design. Ensured 24/7 system availability by deploying on AWS, reducing administrative workload and facilitating easy exam date checks.

Certifications & Extracurricular

- Earned Java certification from Eduonix (Q3 2020) and advanced Web Design Tech expertise with JavaScript, HTML5, CSS3 and database design courses on Udemy (Q1 2021)
- Managed ANOKHA Tech Fest registration, coordinated logistics, facilities, and security; led department's Kabaddi team to championship; enhanced community hygiene and waste management as a volunteer