

Prajay Yalamanchili

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EDUCATION

University of Florida

Master of science in Computer Science

Jawaharlal Nehru Technological University Hyderabad

Bachelor of Technology in Computer Science

Aug. 2023 – May 2025

Current GPA: 3.77/4.0

July 2022

GPA: 8.55/10

EXPERIENCE

Cognizant | Programmer Analyst

Sept. 2022 – July 2023

- Designed and implemented AWS Lambda functions to address diverse business logic requirements, utilizing AWS SAM for seamless deployment and management of Lambda functions
- Engineered RESTful APIs with FastAPI, resulting in a 20% enhancement in request processing speed and a 15% reduction in latency compared to conventional frameworks
- Utilized boto3 to streamline interactions with diverse AWS services, automating routine tasks and bolstering operational efficiency by 25%
- Utilized pytest for automated unit testing, contributing to a 30% reduction in manual testing efforts and a 25% increase in deployment frequency, thereby enhancing software reliability and efficiency

Cognizant | Java Full stack Intern

Feb. 2022 – Aug. 2022

- Led the development and deployment of an audit management system powered by React.js for the front-end and Spring Microservices for the back-end
- Orchestrated container deployment using AWS ECS, leveraging the Fargate launch type for seamless scalability and resource management.
- Engineered CI/CD pipelines with AWS CodeBuild and CodePipeline, automating build, testing, and deployment processes, resulting in a 10% reduction in time-to-market
- Monitored application health and performance metrics using CloudWatch, leading to a 20% decrease in system downtime and improved user satisfaction
- Directed a small, cross-functional team of 5 members

Future Ready Talent | Intern

Sep. 2021 – Dec. 2021

- Developed a CRUD application for storing student details using thymeleaf template on front-end and Java springBoot for back-end
- Deployed the application on Microsoft azure, utilizing services such as azure app service, azure MySQL for the database and azure blob storage for storing images
- Implemented performance optimizations, resulting in a 15% decrease in average page load times and a 30% improvement in server response times.

PROJECTS

National Economic Outlook | Flask, React, Oracle, Git, Visual studio Code

Sep. 2023 – Dec. 2023

- Team project for the Database Management System Course
- The National Economic Outlook aims to analyze various economic trends and indicators using real-world datasets, exploring key queries related to GDP, poverty, homelessness, unemployment, and income inequality in US states
- Designed and implemented a web-based user interface using React JS with multiple pages, including a dynamic dashboard, data visualization pages and admin login page
- Contributed to the development of the back-end using flask, leveraging its faster development time
- Collected various economic indicator datasets, contributing to a total record count of 750,000. Actively participated in data cleaning efforts as part of the team

IOT Devices Spam Detection using Random Forest | Scikit-learn, Numpy, Pandas, Matplotlib, Flask

Aug. 2022

- Built a machine learning model that identifies spam/anomalous data received by IoT devices
- The data set used for this model consists of 32 features and around 5000 rows of data
- Instead of using terminal/CLI, we developed a user-friendly website where the user can upload training data, train/test it, and can see the prediction
- The website also consists of a performance page that depicts correlation analysis and confusion matrix

SKILLS

Languages: Java, Python, JavaScript/TypeScript, HTML/CSS

Frameworks: Spring, FastAPI, Node.js, Angular, React

Databases: MySQL, Oracle

Tools: Maven, Git, Postman, SONARQube, Eclipse, IntelliJ, Figma