Shanmukh Chowdary Morampudi

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EDUCATION

Master's in Computer Science **Aug 2023 - Dec 2024(Expected)**
University of Florida · Gainesville, United States

Bachelor of Technology, Computer Science **Aug 2019 - May 2023**
Bennett University · Greater Noida, India **CGPA: 3.58/4**

WORK EXPERIENCE

Associate Software Engineer

Osmosys Software Solutions (Internship) **July 2022 - December 2022, Hyderabad, India**

- Developed scalable APIs using C# .NET, incorporating business logic to deliver efficient and reliable solutions for a complex project.
- Enhanced system performance by optimizing data retrieval and manipulation in MSSQL using Stored Procedures.
- Worked on Azure tasks to ETL data from the sFTP server to Azure SQL database using Azure Data Factory.
- Written Azure functions in C# language to decrypt the PGP encrypted files in Azure Blob storage.
- Designed robust web applications with HTML, CSS, and JS, emphasizing responsive design and efficient performance.
- Consistently met deadlines and adhered to project requirements, showcasing strong time management and attention to detail.

SKILLS

Languages: Python, C++, SQL, HTML, CSS, YAML
Frameworks: React JS, Node JS, DOT NET
Developer Tools: Git, VS Code, Visual Studio, Android Studio
Cloud/ DevOps: AWS, Microsoft Azure, Docker, Kubernetes, Jenkins

PROJECTS

GatorHive | ***React JS, Node JS, AWS MySql, AWS S3***

- Led the creation of GatorHive, a web application that streamlines events discovery for University of Florida students.
- Created engaging and responsive web pages using React JS and CSS, delivering a seamless user experience.
- Developed secure back-end APIs in Node JS for data communication and managed AWS MySQL database to ensure testing efficiency. Also Integrated AWS services, including Amazon S3, for image hosting, thereby improving the platform's functionality.
- Orchestrated successful deployment of the application on Azure Virtual Machine infrastructure, ensuring 99.9% uptime and availability in production; minimized downtime and boosted user experience.

PacknDeploy | ***Docker, AWS, CI-CD pipelines***

- PacknDeploy is an automated CI/CD pipeline that streamlines web application deployment for increased efficiency and effectiveness.
- Automated the process of Dockerizing the application, pushing the image to Docker Registry like AWS ECR, and deploying it to Elastic Beanstalk using AWS CodeBuild, CodeDeploy, and CodePipeline.
- Written the YAML configuration to dockerize the application and pushed the Image to the Docker Registry.

Wildfire Prediction | ***Machine Learning, Python***

- Proficiently handled data preprocessing tasks, including handling missing values by imputing with mean values, ensuring clean and reliable data for model training.
- Created predictive wildfire models using various regression techniques, optimizing accuracy and reliability.
- Applied machine learning and data science techniques to predict future wildfires, showcasing a dedication to using technology to reduce the adverse effects of such events.

CERTIFICATIONS

AWS Certified: DevOps Engineer Professional, Solutions Architect Professional, Solutions Architect Associate
Microsoft: Azure Administrator Associate (AZ-104), Azure Fundamentals (AZ-900)
HackerRank: Problem Solving (Intermediate) Certificate, Python Certificate

LEADERSHIP AND ACHIEVEMENTS

- Served as Chairperson of Bennett Cloud Computing Club (BC3) during undergraduate studies. Had the privilege of organizing numerous cloud computing events to deepen students' knowledge on it.
- One of my semester projects, “ForHer,” which is a women's safety android application, was lauded as one of the top projects of the semester at Bennett University and was selected for the prestigious Industrial Project Expo.