Shanmukh Chowdary Morampudi

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EDUCATION

Master's in Computer Science   Dec 2024
University of Florida, Gainesville, FL   GPA: 3.65/4.00

PROFESSIONAL EXPERIENCE

Associate Software Engineer   Jul 2022–Dec 2022
Osmosys Software Solutions (Internship)
- Developed scalable APIs using C# .NET, incorporating business logic to deliver efficient solutions for a complex project.
- Designed and implemented responsive web applications using HTML, CSS, and JavaScript, ensuring seamless cross-platform functionality, and improved responsiveness by 20% by implementing lazy loading.
- Enhanced system performance by 40% through optimizing MSSQL data retrieval and manipulation using Stored Procedures.
- Automated an ETL process in Azure Data Factory, efficiently transferring PGP-encrypted files from an SFTP to Azure Blob Storage and reducing processing time by 40% through seamless ingestion and decryption pipeline orchestration.
- Enhanced data transfer and decryption efficiency by integrating Azure Functions with Azure Data Factory, accelerating CSV data loading into SQL by 30% and boosting analytical data accessibility.

PROJECTS

GatorHive | *React JS, Node JS, AWS MySQL, AWS S3*   Feb 2023–May 2023
- Led the team of 4 for creation of a web application that streamlines events discovery for University of Florida students.
- Created engaging 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 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 resulted in minimized downtime and improved user experience.

Recipe Management | *Docker, Kubernetes, AWS EKS, AWS CloudWatch*   Dec 2023–Jan 2024
- Containerized the application's React JS frontend and Node JS backend services with Docker and orchestrated these services using AWS Elastic Kubernetes Service (EKS), employing Helm charts for streamlined management and deployment, while leveraging EKS load balancing features for high availability and system resilience.
- Engineered microservices architecture for server side, with separate service for each functionality of the application. Utilized Docker Compose for orchestrating microservices locally, which streamlined smooth dev-prod environment transition.
- Integrated AWS CloudWatch for end-to-end monitoring, configuring alarms and metrics for real-time application health tracking for quick identification of issues.

Push2deploy | *AWS, Jenkins, CI-CD pipeline*   Apr 2022–May 2022
- Constructed a CI/CD pipeline by integrating Jenkins with AWS CodeBuild for build automation and AWS CodeDeploy for streamlined deployments, directly from a GitHub code repository.
- Leveraged the AWS CodeBuild plugin in Jenkins to automate code compilation and utilized AWS S3 for secure artifact storage, ensuring a robust build management system.
- Configured Jenkins HTTP Request plugin for efficient management of build artifacts, and implemented AWS CodeDeploy for automated, reliable application deployment across environments.

SKILLS

Languages: Python, C++, SQL, HTML, CSS.
Frameworks/Libraries: React JS, Node JS, .NET.
Databases: MySQL, MSSQL, MongoDB.
Cloud Services/DevOps: AWS, Microsoft Azure, Docker, Kubernetes, Jenkins.

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.

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.
- Awarded Bennett Dean's List: 1 of 11 from 500+ students, receiving a US$17,000 scholarship for outstanding academic merit.