Shanmukh Chowdary Morampudi

Portfolio: shanmukhchowdary147.github.io | linkedin.com/in/shanmukhchowdary147 | github.com/shanmukhchowdary147
shanmukh.morampu@ufl.edu | +1(352)871-5871

EDUCATION

Master of Science, Computer Science   Dec 2024
University of Florida, Gainesville, FL
- **Relevant coursework:** Advanced Data Structures, Analysis of Algorithms, Software Engineering, Human Computer Interaction, Distributed Operating Systems, Computer Networks, Computer Information security.

TECHNICAL SKILLS

Languages	:	C++, JavaScript, Python, HTML5, CSS3
Frameworks/Technologies	:	React.js, Redux, Node.js, Express.js, Restful APIs
Databases	:	SQL (MySQL, MSSQL), NoSQL (MongoDB)
Cloud Services/DevOps	:	AWS, Microsoft Azure, Docker, Kubernetes, Git.

WORK EXPERIENCE

Osmosys Software Solutions (Internship)   Hyderabad, India
Associate Software Engineer   Jul 2022–Dec 2022
- Developed scalable APIs in .NET C#, utilizing a layered architecture to incorporate business logic and data access, delivering efficient and maintainable solutions for a complex project.
- Developed responsive web applications using HTML5, CSS3, and JavaScript, ensuring seamless cross-platform functionality, and optimized page load times by 20% through CSS minification and asynchronous JavaScript loading.
- Enhanced system performance through optimizing MSSQL data retrieval and manipulation using Stored Procedures.
- Architected and implemented an automated ETL process in Azure Data Factory, efficiently transferring PGP-encrypted files from an SFTP to Azure Blob Storage and reducing processing time 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 data accessibility.

3Pillar Global India (Internship)   Remote
Quality Engineer   Mar 2022–Jul 2022
- Completed internship focused on HTML, CSS, and JavaScript, developing responsive web components and implementing interactive UI features while adhering to modern web development best practices and cross-browser compatibility standards.

PROJECTS

GatorHive | *React.js, CSS, Node.js, AWS RDS, MySQL, AWS S3, Azure Virtual Machine, Git*   May 2023
- Led the team of 4 for the creation of a web application that streamlines events discovery for University of Florida students.
- Created engaging user interface using React.js and CSS, delivering a seamless user experience.
- Collaborated on backend development using TypeScript and Node.js for data communication, and managed MySQL database to ensure efficient testing. Also Integrated AWS S3 for efficient image hosting, enhancing platform functionality.
- Orchestrated successful deployment of the software on AWS EC2 infrastructure using PM2, optimizing uptime and availability.

Travel Chronicles | *React.js, CSS, Express.js, Node.js, MongoDB*   May 2024
- Built a full stack travel journal app with the MERN stack, featuring an intuitive and responsive UI using React.js and CSS.
- Designed and integrated RESTful APIs with Express.js and MongoDB to facilitate seamless data exchange between the frontend and backend, ensuring efficient data management and retrieval.
- Implemented JWT-based authorization stored in HTTP-only cookies to effectively mitigate XSS and CSRF attacks.

KubeDeploy | *AWS EKS, Docker, Ingress, Load Balancer, Helm*   Mar 2024
- Utilized Amazon EKS and Kubernetes to deploy a scalable three-tier application architecture, managing deployments with Helm.
- Employed Docker to containerize frontend and backend microservices and Amazon ECR for image management.
- Implemented AWS Application Load Balancer and Kubernetes Ingress Controller for efficient traffic routing.

CERTIFICATIONS

AWS Certified	:	Solutions Architect Professional (SAP-C01), Solutions Architect Associate (SAA-C02)
Microsoft Azure	:	Administrator Associate (AZ-104), Data Fundamentals (DP-900), Azure Fundamentals (AZ-900)
HackerRank	:	Problem Solving (Intermediate) Certificate, Python Certificate

ACHIEVEMENTS

- **"For Her" Project**: Recognized as one of the best projects of the semester and shortlisted for the Industrial Project Expo.
- **Bennett Dean's List Scholarship:** Distinguished as one of 11 recipients from over 500 students, awarded a US$17,000 merit based scholarship for exceptional academic performance.