Shanmukh Chowdary Morampudi

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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/Databases: C++, Python, C#, JavaScript, TypeScript, HTML, CSS, MySQL, MSSQL, PostgreSQL, NoSQL (MongoDB).
Frameworks/Technologies: Angular, React, Redux, .NET, Node.js, Express.js, RESTful APIs, MVC, Apache Kafka.
Cloud Services/DevOps: AWS, Microsoft Azure, CI/CD, Jenkins, ArgoCD, Git, Docker, Kubernetes, Microservices.
Certifications: AWS Solutions Architect Professional (SAP-C01), Microsoft Azure Administrator Associate.

WORK EXPERIENCE

Software Developer Intern   Aug 2024 – Dec 2024
Superstars, Inc.   Remote, United States
- Improved app scalability and reduced code redundancy by **35%** through reusable **Angular** components leveraging content projection, enhancing code maintainability and enabling more efficient development.
- Rebuilt critical application interfaces using **Angular** components, **TypeScript**, and **CSS**, implementing responsive design patterns and resolving UI-related bugs to improve UI architecture and cross-device compatibility.

Full-stack Developer   May 2023 – Jul 2023
Indpower (Electrical Services Company)   Remote, India
- Engineered a portfolio website using **React.js** and **CSS**, boosting client inquiries for an electrical company.
- Implemented serverless contact system using EmailJS and IP rate limiting for secure form submissions with zero backend costs.

Associate Software Engineer   Jul 2022 – Dec 2022
Osmosys Software Solutions   Hyderabad, India
- Developed scalable APIs in **.NET C#** using layered architecture with **Entity Framework** and **Dapper** for complex data queries.
- Strengthened **MSSQL** database security by implementing parameterized queries and input sanitization with RBAC across 50+ critical operations ensuring secure handling of sensitive policyholder data.
- Improved database performance by developing **15+ stored procedures** for complex operations, **optimizing data aggregation** for insurance claims and accommodation matching, and reducing query latency by **30% through index scans**.
- Implemented **Redis Cache** to optimize database interactions, reducing query response times by **40%** for frequently accessed data.
- Developed responsive web applications using **Angular**, **CSS3**, and **TypeScript**, ensuring seamless cross-platform functionality, and optimized page load times through CSS minification and Lazy loading.
- Architected an automated **ETL** process using **Azure Data Factory** and **Azure Functions**, orchestrating seamless ingestion and decryption of PGP-encrypted files from SFTP to Azure Blob Storage, resulting in **70%** faster CSV data loading into SQL.

LEADERSHIP EXPERIENCE

Technical Lead | Twilight (University Startup) | *Website*   Sept 2024 – Jan 2024
- Led technical team and designed full-stack architecture, conducting technical planning sessions and managing feature delivery.
- Built **Angular** pages with TypeScript and SCSS, adding modern UI, smooth animations, for an enhanced user experience.
- Architected the entire Express.js backend, developed **30+ RESTful APIs**, and **integrated Kafka** for asynchronous messaging.
- Designed a **hybrid MySQL-MongoDB** data model with **Sequelize ORM**, optimizing structured data retrieval while ensuring dynamic content storage for faster querying and data flexibility.

PROJECTS

GatorHive | *React.js, CSS, Node.js, AWS RDS, MySQL, AWS S3, Azure Virtual Machine, Git* | *GitHub*   May 2023
- Created engaging user interfaces using **React.js** and CSS, delivering a seamless user experience for university students.
- Developed backend using **TypeScript** and Node.js, integrating with **MySQL** and **AWS S3** for efficient data and image storage.
- Orchestrated successful deployment of the software on **Azure Virtual Machine** using PM2, for cost optimization.

DevOps Pipeline | *Jenkins, AgroCD, Docker, Kubernetes, AWS EKS, Helm*   May 2024
- Engineered **CI/CD pipeline** with Git, Jenkins, Docker, and ArgoCD on AWS, implementing automated code quality gates and containerized deployments, reducing deployment time from hours to minutes with zero-downtime releases.
- Orchestrated Kubernetes deployments on EKS with Helm and ArgoCD, enabling automated infrastructure across environments.

ACHIEVEMENTS

- "For Her" Project: Recognized as one of the best projects of the semester and shortlisted for the Industrial Project Expo.
- Awarded the Bennett Dean's List Scholarship as one of 11 recipients from over 500 students for outstanding academics.