

Shanmukh Chowdary Morampudi

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EDUCATION

Master of Science, Computer Science | University of Florida | Gainesville, FL Dec 2024

- Relevant Coursework: Advanced Data Structures, Algorithms, Software Engineering, Distributed Operating Systems, Computer Networks, Computer Information security.

Bachelor of Technology, Computer Science | Bennett University | Delhi, India May 2023

TECHNICAL SKILLS

Programming Languages: Python, C++, C#, JavaScript, TypeScript

Frontend Technologies: React, Redux, Angular, HTML5, CSS3, Material UI

Backend & Database: .NET, Node.js, Express.js, RESTful APIs, Apache Kafka, MySQL, MSSQL, NoSQL (MongoDB), Redis

Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Jenkins, Argo CD, CI/CD, Git, Microservices

CERTIFICATIONS

AWS Certified Solutions Architect – Professional, Microsoft Azure Administrator Associate.

WORK EXPERIENCE

Software Development Engineer | Greenstand | Remote, United States Jan 2025 – Present

- Implemented secure authentication system using **Node.js** and Keycloak, deploying the containerized **microservice** on **Kubernetes** in Digital Ocean with Ambassador API Gateway for optimized routing and scalability.

Software Developer Intern | Superstars, Inc. | Remote, United States Aug 2024 – Dec 2024

- Developed reusable **Angular** UI components using content projection, reducing component code by **35%** for key application modules while improving maintainability and development efficiency.
- 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 | Indpower (Electrical Services Company) | India Jan 2023 – Jul 2023

- Developed a company website using **React.js**, implementing optimization techniques that improved performance by 45%, achieving perfect Lighthouse performance scores across all categories.
- Architected a modular **SEO** architecture with React Helmet and TypeScript that dynamically constructs structured JSON-LD data across pages, significantly improving search rankings and increasing client inquiries for the company.

Associate Software Engineer | Osmosys Software Solutions | Hyderabad, India Jul 2022 – Dec 2022

- Developed scalable **APIs** in **.NET C#** with Entity Framework and Dapper, implementing parameterized queries, input sanitization, and RBAC across 30+ operations to ensure secure **MSSQL** database interactions handling sensitive policyholder data.
- Improved database performance by developing **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 for frequently accessed data.
- 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) | Gainesville, FL | [Website](#) Sept 2024 – Dec 2024

- Led technical team of 4 and developed full-stack application, conducting technical planning sessions and managing feature delivery.
- Built **React** pages with **JavaScript** and **CSS**, adding modern UI, smooth animations, for an enhanced user experience.
- Architected the entire **Express.js** backend, developed **30+ REST APIs**, integrated secure authentication and caching.
- Designed a **hybrid MySQL-MongoDB** data model using **Sequelize ORM** and Mongoose ODM, optimizing structured data retrieval while enabling dynamic content storage for faster querying and improved 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 **Express.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, Argo CD, Docker, Kubernetes, AWS EKS, Helm* May 2024

- Engineered **CI/CD pipeline** with Git, Jenkins, Docker, and Argo CD 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 Argo CD, enabling automated infrastructure across environments.