

YASHWANTH REDDY GUNDEPALLY

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[Linkedin Profile](#)

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Experience

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Jun 2024 – Present

Software Engineer

- Developed and maintained **RESTful APIs** using **Node.js** and **Express** for a healthcare application, improving the system's scalability and reducing API response times by 20%.
- Designed and developed a healthcare management user interface (UI) to streamline patient record management, improve data visualization for vital signs, and enhance overall user engagement using React.
- Designed and optimized **MongoDB** for flexible storage of patient records and medical history, resulting in a 25% improvement in data retrieval performance.
- Designed and deployed **microservices** using **Docker** and **Kubernetes**, improving system reliability, scalability, and fault tolerance by isolating components in containers and orchestrating their deployment.

Cognizant

May 2021 – Aug 2022

Software Engineer

- Built backend microservices using **Spring Boot** and **Spring JPA**, created REST APIs, and achieved 90% test coverage, improving code quality.
- Developed and improved backend systems with Java and Spring Boot for large applications, reducing processing time by 30%.
- Designed and maintained REST APIs, improving frontend-backend integration and making the system 25% faster.
- Implemented **OAuth 2.0** and **JWT** for secure login and data protection.

Projects

Fault-Tolerant Distributed Key-Value Storage | *Go, gRPC, Distributed Systems*

- Developed a distributed key-value storage system in Go, ensuring reliable data storage and retrieval across multiple nodes.
- Implemented the Raft Consensus algorithm for leader election and log replication, achieving fault tolerance and consistency in a five-node system.

Student Survey Application | *React, Node.js, Amazon RDS, CI/CD (Jenkins), GitHub, kubernetes, Amazon EC2*

- Constructed a single-page application for student surveys and integrated it into EC2 instances. Administered data using RDS services for database storage and management.
- Established a CI/CD pipeline with GitHub and Jenkins, automating build, testing, and deployment processes to streamline development workflows and decrease running time.

Face Image Generation with StyleGAN | *PyTorch, GANs, CNN, Image Processing, Neural Networks*

- Implemented StyleGAN architecture for synthesizing high-resolution face images and customized the training loop to load pre-trained model weights, hyperparameters, and metadata like current training iterations from checkpoint files, ensuring consistent performance after resumption.
- Achieved high-quality 512x512 image generation, maintaining competitive FID scores, demonstrating efficient and effective text-to-image synthesis capabilities.

Technical Skills

Languages: C/C++, Python, Java, JavaScript, SQL, Go

Web development: HTML, CSS, Bootstrap, Tailwind CSS, React, Node.js, Express.js, GraphQL

Database: MySQL, Oracle, PostgreSQL, MongoDB, Redis

Libraries: Pandas, Keras, NumPy, TensorFlow

Frameworks: Springboot, REST

Cloud and DevOps Technologies: AWS (EC2, S3, RDS, DynamoDB, Lambda, SQS), Docker, Kubernetes, Jenkins, Apache Kafka, Git

Education

George Mason University, VA - Masters in Computer Science - GPA: 3.7/4.0

Aug 2022 – May 2024

Courses: Software Engineering for WWW, Software Testing, Design and Analysis of Algorithms, Database Systems, Data Mining, Deep Learning, Machine Learning, Big Data