

Sanjana Gaddamanugu

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Education

San Francisco State University
Master of Science, Computer Science

Aug 2022 - Dec 2024 | San Francisco, USA
GPA: 3.9/4.0

Koneru Lakshmaiah University, India
Bachelor of Technology, Computer Science

Aug 2018 - May 2022 | Hyderabad, India
GPA: 3.8/4.0

Technical Skills

Languages - JavaScript/TypeScript, Python, SQL, HTML5, CSS3, XML

Frameworks/Libraries - React, Node, Express, Pandas, Numpy, TensorFlow, Scikit-learn, OAuth2, Open Source LLMs

Cloud/Database - AWS (EC2, S3, Elasticsearch, RDS, SNS), Oracle Cloud, OIC, PostgreSQL, MongoDB, ETL/ELT

Tools - Git, Github Actions, New Relic APM, Jest, Cypress, Postman, SonarQube, ESLint, Vite, Tableau, Power BI

Certifications - AWS Certified Cloud Practitioner, Meta Advanced React, Udemy Full Stack Developer

Experience

Software Engineer | DXC Technology

Jan 2024 - Present | Remote, USA

- **API Development:** Developed a REST API with AWS Elasticsearch for real-time product catalogs and AWS S3 for asset storage, achieving a 400ms average query response time. Managed Kibana dashboards for real-time analytics charts.
- **Authentication & Alerts:** Implemented secure OAuth2 and JWT-based authentication, configured AWS SNS/SQS for push notifications and message queuing, enabling reliable notification delivery
- **Performance Optimization:** Monitored PostgreSQL RDS performance and API response times with AWS CloudWatch/Grafana dashboards collecting 100k metrics/min. Configured alert thresholds for proactive scaling decisions
- **Frontend:** Optimized React application through code splitting and lazy loading, reducing initial load time by 20%. Achieved 85% test coverage using Jest and Cypress for comprehensive unit and E2E testing.

University Teaching Assistant | San Francisco State University

Jan 2023 - Dec 2023 | San Francisco, CA

- **Teaching Associate:** CSC-698 (Topics in Computing) - Instructed advanced computing methodologies including system design principles, cloud deployment strategies, and design patterns, leading 25+ students through complex algorithmic implementations and database optimization techniques
- **Teaching Assistant:** CSC-805 (Data Visualization) - Guided students through core visualization principles, chart representation techniques, and interactive data exploration using Tableau, Power BI, D3.js, and statistical tools, fostering critical evaluation of visual analytics concepts

Software Engineer | Infosys

Aug 2021 - July 2022 | Hyderabad, India

- **Database Optimization:** Optimized MongoDB performance through compound indexing and monitored with New Relic APM, achieving a 40% reduction in query response time across applications
- **State Management:** Managed application state using Redux and React Context, handling user sessions and data flow between components. Devised unit and integration tests using Jest and React Testing Library, achieving 85% test coverage
- **Code Review & Documentation:** Created API documentation using Swagger OpenAPI and Postman, facilitated code reviews through Git pull requests, maintaining coding standards across development team
- **SDLC:** Participated in structured SDLC phases including requirements analysis, design reviews, coding, testing, and deployment activities while working within established Agile sprint cycles and team processes

Projects

HealthShare: AI-Enhanced Pandemic Data Repository | PostgreSQL, React, Node, Express, Llama, D3.js

- Engineered comprehensive data extraction pipelines using Python (Beautiful Soup, Scrapy, Tweepy) to collect and integrate 120K+ healthcare records from diverse sources including social media APIs and medical databases
- Designed normalized relational database schema in PostgreSQL, implemented data mapping strategies for heterogeneous data sources, and integrated Meta LLaMA language model for contextual analysis and NLP to identify pandemic trends
- Created an interactive visualization suite with D3.js featuring statistical dashboards, analysis charts, and advanced filtering capabilities, translating complex patterns into actionable insights

GatorMart: University Marketplace | MERN, AWS, WebRTC, Socket.io, Material UI

- Designed an e-commerce platform using MERN integrated with AWS (S3 for static file hosting, EC2 for server instances) and implemented real-time communication via WebRTC and Socket.io for instant messaging
- Led UX research through A/B testing, designed wireframes in Figma, and integrated SonarQube for code quality assurance
- Implemented JWT-based user authentication, bcrypt for password hashing, and automated email verification using Nodemailer.