

Akhila Muthyala

Full Stack Engineer

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PROFILE

With more than 5+ years of experience in software engineering, I specialize in front-end and full-stack development using **React, Angular, GraphQL, and Node.js**. I design **scalable, high-performance applications** while optimizing system architecture and development workflows. My expertise includes **CI/CD automation, cloud services (AWS, Azure, GCP), and database management** to enhance system reliability and efficiency. I am passionate about creating **responsive, accessible, and user-centric applications** that drive engagement and business success. Additionally, I integrate **AI and ML tools** to improve user experiences through intelligent automation and natural language processing.

EDUCATION

Master's in Computer Science
Arizona State University

08/2017 – 05/2019
Tempe, Arizona

Bachelor's in Computer Science
G.I.T.A.M University

06/2013 – 05/2017
Vishakapatnam, India

CERTIFICATIONS

AWS Certified AI Practitioner 

02/2025 – 02/2028

SKILLS

Programming Languages
C, C++, Java, Python

Frameworks & Libraries

React, Angular, Node.js, Redux.js, Express.js, Bootstrap, HTML, CSS, Javascript, jQuery, SpringBoot, GraphQL

Tools & Technologies

Google Cloud Services (Dialogflow), Azure Cloud Services (Azure Boards, Repos, CI/CD), AWS (EC2, S3, Lambda, Load Balancers, API Gateway, CloudFront, Route 53, Bedrock, SageMaker, Amazon Q, Kendra), Kubernetes, Postman, GitHub, Jira, Git, Kafka

Databases

MySQL, PostgreSQL, DynamoDB, NoSQL, RDBMS, SQL Server, MongoDB.

PROFESSIONAL EXPERIENCE

Full Stack Developer
PwC - Contract

09/2021 – present
Tampa, United States

- Integrating the app with firm-wide systems for **calendar tracking, timesheets, and goal management**, improving operational efficiency by **15%**.
- Designed and implemented **automated testing strategies** to maintain high code quality and reduce production bugs by **20%**.
- Developed reusable **React components** following **component-based architecture**, improving maintainability and development speed by **30%**.
- Optimized front-end performance by **30%**, leveraging best practices such as **lazy loading, code splitting, and memoization**.
- Integrated **GraphQL APIs** with React-based front-end, improving data-fetching efficiency by **25%**.

- Designed event-driven microservices architecture using **Kafka**, ensuring reliable communication and scalability across distributed systems.
- Implemented authentication and authorization using **OAuth 2.0 and JWT**, ensuring secure access control and compliance with security policies.
- Automated deployment pipelines with **CI/CD (Azure ADO)**, reducing deployment time by **40%**.
- Managed front-end state using **Redux**, improving data handling and UI responsiveness.
- Enhanced chatbot interactions by integrating **Amazon Kendra** and **Dialogflow**, improving **user engagement by 15%**.

Full Stack Developer

CRMC - Contract

11/2019 – 09/2021
Irving, United States

- Built front-end development for **Electronic Health Record system** using **ReactJS and TypeScript**, enhancing usability and reducing page load times by **30%**.
- Built responsive, **accessible UI components**, ensuring cross-device and cross-browser compatibility.
- Developed and optimized **RESTful and GraphQL APIs**, improving data retrieval speeds by **20%**.
- Integrated **Redux for state management**, ensuring smooth data flow and UI consistency across the application.
- Architected front-end workflows for **300+ healthcare providers**, improving order accuracy by **15%** and reducing administrative errors by **5%**.
- Designed **secure authentication mechanisms** using **OAuth 2.0 and role-based access control (RBAC)**, ensuring HIPAA compliance.
- Implemented modern front-end best practices, including **modular architecture, code reusability, and performance optimization**.
- Developed **continuous integration pipelines** for automated front-end builds and testing, improving deployment efficiency.
- Designed and optimized **MongoDB and PostgreSQL** schemas for high-performance queries, reducing response times by **25%**.

ORGANIZATIONS

Global Guides (Student Organization in ASU)

Advisory Board Member

2018 – 2019
Tempe, United States

Advisory Board Member and Founding Member of **Global Guides**, actively contributing to strategic direction. **Served as both Mentee and Mentor** within the Global Guides program, fostering knowledge exchange and professional development.

Coalition of International Students

Member

2017 – 2019
Tempe, United States

Volunteer with the Coalition of International Students (CIS), supporting initiatives that promote community engagement and advocacy for international student needs.