

# KEERTHANA GOGINENI

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## PROFESSIONAL SUMMARY

Full Stack Developer with around 4 years of professional experience delivering end-to-end web applications across frontend, backend, and cloud environments. Strong expertise in MERN and MEAN stacks, building scalable user interfaces with React, Vue.js, and Angular, and developing backend services using Node.js, Spring Boot, and FastAPI. Proven experience designing REST and GraphQL APIs, implementing secure authentication and role-based access control, and optimizing SQL and NoSQL databases supporting high-traffic applications. Experienced in deploying cloud-native solutions on AWS and Azure, automating CI/CD pipelines, and improving application performance, reliability, and operational efficiency through measurable production outcomes.

## TECHNICAL SKILLS

**Programming & Scripting Languages:** JavaScript (ES6+), TypeScript, Java, Python, PHP.

**Frontend Development:** React.js, Vue.js, Angular, Next.js, Redux, Tailwind CSS, Bootstrap, HTML5, CSS3, Responsive Web Design.

**Backend Development:** Node.js, Express.js, Spring Boot, FastAPI, RESTful APIs, GraphQL, WebSockets, Authentication & Authorization.

**Full Stack & Web Technologies:** MERN Stack, MEAN Stack, End-to-End Application Development, Frontend-Backend Integration, Cross-Platform Web Applications.

**Cloud & DevOps:** AWS (Lambda, EC2, EKS, S3, API Gateway, Cognito, CloudWatch), Azure (AKS, App Services), Docker, Kubernetes, CI/CD Pipelines, GitHub Actions, Jenkins, Terraform.

**Databases & Data Management:** PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Oracle PL/SQL, Relational & NoSQL Databases.

**Testing, Quality & Monitoring:** JUnit, Mockito, Jest, Cypress, Playwright, Selenium, Datadog, Prometheus.

**Development Tools & Version Control:** Git, GitHub, Azure DevOps, VS Code.

## PROFESSIONAL EXPERIENCE

### Full Stack Developer

Jan 2025 - Present

Utah Valley University | Orem, Utah

- Designed and delivered end-to-end web applications by developing Vue.js frontends and FastAPI backend services, enabling secure self-service workflows that reduced manual administrative processing and turnaround time by 28%.
- Implemented RESTful APIs with role-based access control using Python and AWS Cognito, strengthening data security compliance while reliably supporting 3,000+ authenticated users across multiple academic and administrative systems.
- Modernized legacy PHP-based applications by refactoring UI logic and backend integrations, increasing page load performance by 35% and improving user engagement across 5+ internally used platforms.
- Automated cloud infrastructure provisioning and application deployments using AWS CDK, Docker, and GitHub Actions, eliminating environment-related failures and reducing release cycles from weekly schedules to on-demand deployments.
- Optimized Oracle PL/SQL procedures, triggers, and batch jobs within the Banner ERP ecosystem, efficiently processing millions of student records while reducing batch execution time and operational overhead by 30%.
- Integrated AWS Lambda and API Gateway to support asynchronous backend processing and event-driven workflows, improving system reliability and maintaining stable performance during peak enrollment and registration periods by 40%.
- Collaborated closely with academic administrators, IT operations, and database teams to translate functional requirements into scalable technical solutions, ensuring alignment between business needs, compliance requirements, and system behavior.
- Enforced code quality, testing standards, and maintainable design practices through peer reviews and structured validation, reducing post-release defects and improving long-term application stability.

### Application Engineering Assistant

Aug 2023 - May 2024

University of North Texas | Denton, Texas

- Rebuilt legacy AngularJS applications into modern React.js interfaces using Tailwind CSS, improving maintainability and reducing UI-related defect rates by 32% across student-facing systems.
- Developed backend services with Node.js, Spring Boot, and FastAPI to support scalable academic workflows, enabling secure and consistent data access across multiple internal web portals.
- Designed and maintained REST and GraphQL APIs by implementing schema design, resolver logic, and authorization rules, achieving sub-second response times for high-volume academic data queries.
- Integrated AI-assisted features using OpenAI APIs and Hugging Face models to automate classification and suggestion workflows, reducing manual review effort by 25%.
- Deployed and operated cloud-native services on AWS Lambda and Azure AKS, supporting horizontal scalability and stable performance during peak academic usage periods.
- Streamlined CI/CD pipelines using Azure DevOps and containerized testing, while implementing centralized monitoring with Datadog and Prometheus to maintain 99.9% system uptime.

### Enterprise Software Engineer

Sep 2021 - Aug 2022

Accenture Solutions Pvt. Ltd | Hyderabad, India

- Developed enterprise-grade full stack applications using Java, Spring Boot, and React.js, contributing to 25+ functional modules that supported large-scale customer data and transaction management systems.
- Engineered RESTful APIs to enable secure and efficient communication between distributed services, improving backend reliability and ensuring seamless frontend integration across multiple application layers.
- Tuned MySQL and NoSQL database queries by restructuring indexes and optimizing query logic, reducing average API response times by 0.35 seconds under production workloads.
- Implemented Spring Security-based authentication and authorization mechanisms, strengthening access control and ensuring compliance with enterprise security and data protection standards.
- Delivered responsive and accessible frontend components using React.js and modern JavaScript, improving usability and performance for 1,000+ active users across enterprise dashboards.
- Integrated Azure Blob Storage and Azure Databricks to support scalable data storage and analytics workflows, enabling downstream reporting and data processing use cases.

- Built comprehensive unit and integration test coverage using JUnit and Mockito, reducing production defects by 50% and increasing confidence in release readiness.
- Collaborated with QA, DevOps, and product teams within Agile delivery cycles to ensure timely feature delivery, production stability, and adherence to quality standards.

#### Software Engineer - Web Applications

Firstzen Solution Pvt. Ltd | Hyderabad, India

Feb 2021 - Aug 2021

- Delivered full stack e-commerce features using Java and React.js by translating business requirements into scalable, production-ready functionality that supported real customer transactions.
- Designed MySQL schemas and optimized complex SQL queries to improve data retrieval efficiency, achieving 200 milliseconds faster query execution under user load.
- Developed RESTful backend services to support secure frontend-backend communication and transactional workflows across the application.
- Built responsive React.js user interfaces with structured state management, improving cross-browser compatibility and ensuring consistent user experience.
- Implemented authentication and session handling mechanisms to protect user data and maintain application integrity across login and checkout flows.
- Managed source control and collaborative development using GitHub workflows, ensuring clean versioning, traceability, and controlled releases.
- Authored Selenium-based automated test cases to detect critical regressions before deployment, reducing post-release issues by 30%.
- Collaborated with senior developers during debugging, optimization, and production support activities, strengthening system-level understanding and problem-solving skills.

#### Software Engineering Intern

CME Group | Bangalore, India

Aug 2020 - Jan 2021

- Improved application stability by designing and executing unit and integration tests using JUnit and Mockito, reducing reported defects and bug backlog by 40% across core modules.
- Validated backend business logic and API behavior through structured test execution, ensuring compliance with enterprise coding and quality standards.
- Collaborated with a cross-functional team of 5 engineers to analyze defects, reproduce issues, and verify fixes across development and testing environments.
- Maintained detailed test documentation, execution reports, and defect logs to support Agile development cycles and release tracking.
- Participated in code reviews to understand enterprise Java application architecture, testing strategies, and quality expectations.
- Strengthened debugging, analytical, and problem-solving skills by working closely with senior developers and QA engineers on real production issues.

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## PROJECTS

### Cloud-Native Full Stack Application Platform

- Built a full stack web application by developing React-based user interfaces and FastAPI backend services, enabling secure end-to-end workflows that reduced manual processing, improved operational efficiency, and supported 200+ concurrent users.
- Implemented RESTful APIs with authentication and role-based access control using Python and AWS Cognito, ensuring secure data access and supporting multiple user roles across the application.
- Deployed the application using Docker and AWS services (Lambda, S3, API Gateway), improving scalability and maintaining stable performance under concurrent user activity.

### Enterprise Web Application Modernization

- Modernized a legacy web application by migrating frontend components to React.js and refactoring backend services using Spring Boot, improving maintainability and reducing technical debt.
- Designed and integrated backend APIs with structured data models and optimized database queries, reducing data retrieval time by ~18% and improving frontend-backend communication reliability.
- Established CI/CD pipelines using GitHub Actions to automate builds and deployments, reducing release errors and accelerating feature delivery cycles.

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## EDUCATION

### Master of Science in Computer Science

University of North Texas | Denton, Texas

Aug 2022 - May 2024

### Bachelor of Technology in Computer Science

Jawaharlal Nehru Technological University | Hyderabad, India

May 2017 - Aug 2021

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## CERTIFICATIONS

- Power Platform Fundamentals - [Microsoft](#)
- Full-Stack Web Development with React - [Coursera](#)
- Meta Back-End Developer Professional Certificate - [Coursera](#)
- Cloud Computing Foundations - [Coursera](#)
- Learning REST APIs - [LinkedIn Learning](#)