

# G GNANA SAI KRISHNA

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## EXPERIENCE

**Microland, Bangalore, Karnataka, India: Administrator**

Jan 2022 – Present

- Developed and optimized scalable **web applications** using **React.js, Redux, TypeScript, and Node.js**, improving responsiveness and reducing load times by **35%**.
- Integrated **third-party APIs** and optimized **RESTful API** performance, reducing response times by **30%** for better application efficiency.
- Developed and managed **CI/CD pipelines** in **Azure DevOps**, automating build, testing, and deployment, reducing manual efforts by **40%**.
- Implemented **PowerShell scripts** for infrastructure automation, log analysis, and deployment, enhancing system reliability and performance.
- Worked on **cloud infrastructure provisioning** using **Terraform** on **Azure**, ensuring scalability, high availability, and continuous integration.
- Optimized user retrieval logic in the backend, reducing **query execution time by 40%** for **1,500+ users**.
- Implemented **pagination and indexing** in **Azure Cosmos DB/MySQL/MongoDB**, improving response time for large datasets and enhancing performance.
- Collaborated with UI/UX teams to implement **responsive web designs**, enhancing user experience across different platforms.
- Participated in Agile methodologies including **sprint planning** and **daily stand-ups**, ensuring efficient delivery of features and bug fixes.
- Worked on **connected applications** and **IoT** integration, improving functionality within enterprise networks and cloud platforms.

## EDUCATION

**G Pullaiah College of Engineering and Technology, Kurnool**

March 2021

B.Tech, Electronics and Communications Engineering

6 CGPA

Relevant coursework: Networks and Circuits, Digital Signal Processing, Analog Control Systems

## TECHNICAL SKILLS

**Frontend:** React.js, Redux, TypeScript, JavaScript (ES6+), HTML5, CSS3, Material UI

**Backend:** Node.js, Express.js, REST APIs

**Cloud & DevOps:** Microsoft Azure, Azure DevOps, Terraform

**Databases:** MySQL, MongoDB, Azure Cosmos DB

**Testing & Debugging:** Jest, React Testing Library

**Version Control & CI/CD:** Git, GitHub, Azure Repos

## PROJECTS

**ASL Aircraft**

Jan 2024 -- March 2024

- Designed and developed a modular React.js application hosted on Azure App Services, covering features like Chat, Document Upload, Chat History, and Feedback Management.
- Integrated Azure Active Directory (AD) authentication for secure login, dynamic role-based access control (Admin/User) for managing uploads, deletions, and document visibility.
- Built user-centric interfaces including search, dynamic chat interactions, feedback submission, document management, and real-time content filtering, improving user engagement and system usability.
- Optimized application performance by implementing efficient file handling (bulk uploads) and providing features like CSV export, printing, chat history filtering, and feedback analysis.

**Terraform & Azure DevOps Automation for Microsoft Fabric SaaS Resource Management**

Aug 2024 – Feb 2025

- Automated Microsoft Fabric SaaS resource management using Terraform & Azure DevOps.
- Implemented JSON-based configurations for dynamic provisioning of key components.
- Optimized lakehouse, notebook, and pipeline provisioning, preventing capacity duplication.
- Integrated AAD automation via Microsoft Graph API for authentication & security.
- Developed PowerShell & Shell scripts for infrastructure automation and deployments.

- Developed a React.js and Azure-based application with modules like Upload, Chat, Documents and ensuring secure deployment via Azure App Services.
- Implemented PII (Personally Identifiable Information) detection during document uploads, ensuring sensitive data compliance before indexing for search and chat functionalities.
- Implemented Microsoft Azure Active Directory (AD) authentication with role-based access control, enabling differentiated user permissions for uploading, viewing, and managing documents.
- Enhanced the Chat UI module to deliver intelligent, context-aware responses based on indexed document content, improving user interaction and information retrieval efficiency.