

# Sri Nikhil Reddy Gudibandi

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## SUMMARY

Software Engineer with experience in full-stack development, cloud technologies, and cybersecurity, specializing in building secure, scalable web applications, along with optimizing data workflows, enhancing system reliability, and securing applications.

## EDUCATION

**MSc - Computer Science, Security** (GPA: 3.54) | Boston University, Boston, MA

January 2023 - May 2024

Coursework: Software Engineering, Secure Software Development, Cybersecurity, Enterprise Cybersecurity Management, Networks.

**BE - Computer Science and Engineering** | SIST, India

July 2016 - May 2020

Coursework: C, C++, Python, Object oriented Programming, Data Structures & Algorithms, Computer Networks, Machine Learning.

## EXPERIENCE

**Security and Product Development Engineer - Intern** | Stiisk LLC, Cambridge, MA

July 2024 - December 2024

- Optimized the rendering of large 3D models by modularizing the code and partitioning data, which reduced load times and prevented timeout errors, ensuring a smooth user experience with complex datasets.
- Improved the application's performance on different browsers by moving data storage from local storage to Firebase and combining it with a hybrid data-fetching strategy to ensure consistent 3D model loading.
- Enhanced the payment process by deploying Google Cloud functions for Stripe integration, managing checkouts and webhooks to increase transaction reliability and improve the user experience.
- Secured the application by integrating SonarQube scans into the CI/CD pipeline and following OWASP Top 10 security guidelines, which helped prevent common vulnerabilities like SQL injection and XSS.

**Software Engineer** | Capgemini, India

January 2021 - July 2022

- Supported over 3,000 Informatica ETL jobs using AutoSys to automate data processing workflows, ensuring accurate and timely business reports were delivered through Tableau for critical decision-making.
- Improved system reliability by achieving a 99% resolution rate for critical job failures within Service Level Agreements (SLA), using ServiceNow for incident tracking and implementing efficient troubleshooting procedures to minimize downtime.
- Maintained seamless batch processing by providing L1 and L2 production support, identifying root causes for failures in real-time, and applying quick fixes to ensure uninterrupted business operations.
- Recovered 2–3 million failed records during weekend recovery operations by data restoration techniques using Microsoft SQL Server, IBM DB2, and PostgreSQL, with custom bash scripts integrated with Informatica processes for data consistency.

**Core Team Member - Intern** | Global Child Prodigy Awards, India

January 2017 - December 2020

- Migrated client data from Google Sheets to Firebase, focusing on enhancing data security with encryption and setting up real-time updates to improve team collaboration.
- Developed and maintained an internal web application using HTML, CSS, and JavaScript, integrating Firebase for real-time data access, which streamlined team communication with VIPs, clients, and nominees.
- Created and repeatedly improved a chatbot using Flask and NLTK for the company's website, automating responses to common queries and enhancing user engagement.
- Collaborated with leadership, translating organizational needs into technical solutions, contributing to key initiatives that aligned with the company's growth goals.

## PROJECTS

**Time Bridge AI - GPT Calendar Manager** | *Next.js, firebase, TypeScript, Python, FastAPI* | <https://timebridgeai.web.app/>

- Developing a full-stack calendar management application integrating natural language processing (NLP) for AI-driven event scheduling via conversational interfaces. Automated calendar management with seamless Google Calendar API integration.

**Periodic Table AI - GPT Scientific Platform** | *Next.js, Firebase, TypeScript, REST API* | <https://periodictableai.web.app/>

- Developed an interactive periodic table application using Gemini AI for AI-powered element analysis and is now enhancing it with a custom-built LLM for more advanced results. Architected a serverless backend with Firebase and automated the deployment process using CI/CD pipelines with GitHub Actions.

**PawsitiveID** | *Angular, Flask, MobileNet, EfficientNet, Firebase, RESTful API* | <https://pawsitiveid-10f0e.web.app/home>

- Developed a web app for dog breed identification with 89% accuracy using MobileNet and EfficientNet. Designed an interactive UI/UX with Angular, deployed on Firebase for real-time data handling, and system performance for ideal user experience.

## SKILLS

**Languages:** Python, C++, SQL, JavaScript, HTML, CSS, React, TypeScript, Bash.

**Tools:** Terraform, Kubernetes, Unix/Linux, Git, GitHub Actions, Jira, Pivotal Tracker, Informatica, Tableau, PostgreSQL, Microsoft SQL Server, AutoSys, ServiceNow, Docker, SonarQube, OWASP ZAP, Nessus, Wireshark, NMap, BurpSuite.

**Cloud:** Google Cloud Platform (GCP), Firebase, AWS.

**Certifications:** CompTIA Security+ (SY0-701), Google Cybersecurity Professional, Application Security IBM-ICE.