

# Akhil Sai Boppudi

## Full Stack Developer

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### Summary

Full Stack Developer specializing in cloud infrastructure and automation, with practical experience from internships at Drishya AI and Nviri Solutions. Improved AWS testing costs by 5% and reduced deployment duration by 35% through CI/CD improvements. Built scalable web applications serving 500+ users and real-time systems handling 1,500+ concurrent sessions. Combines strong computer science fundamentals with hands-on experience in JavaScript, Python, React, and cloud technologies. Particularly interested in developing efficient, user-focused solutions and working with emerging AI technologies.

### Skills

Python

JavaScript

Java

C/C++

MySQL

PostgreSQL

MongoDB

Next.js

Django

Flask

Springboot

React

Express

Numpy

Pandas

Matplotlib

Ollama

OpenAI

LangChain

Git

GitHub

Docker

Postman

GitHub Actions

Terraform

### Experience

- Drishya AI**, Software Intern

Vizianagaram Sep 2024 – Present


  - Built a monitoring system for AWS Lambda functions using AWS Xray and SDKs, enabling real-time performance tracking and improving cost efficiency.
  - Created replicas of AWS Step Functions with Node.js and AWS SDK, reducing testing expenses by 5%.
  - Implemented an automated alerting mechanism for latency and service failures, cutting down-time by 15% through efficient maintenance.
- Nviri Solutions**, Full Stack Intern

Remote Jan 2024 – Sep 2024


  - Designed an in-product interface for customers to create WhatsApp templates, streamlining the process by 40% and eliminating the need for external tools.
  - Developed a solution for businesses to automate customer chats with predefined messages, while offering seamless conversation takeover, boosting engagement by 25%.
  - Built and refined CI/CD pipelines, cutting deployment times by 35% and enhancing project delivery speed and reliability.

### Projects


- Course Application Website**

 Github

  - Developed a web application used by over 500 students for course registration, with a 20% increase in honors and minor course applications.
  - Integrated real-time validation, reducing user errors by 15%, and enhanced error handling, improving the overall user experience by 30%.
- Multiplayer Chess Game**

 Github

  - Implemented responsive UI components, improving user satisfaction by 25%, and ensuring cross-device compatibility.
  - WebSocket-based game state synchronization, supporting over 1,500 real-time game sessions with less than 1-second latency for instant updates and rule enforcement.
- Compiler for C**

 Github

  - Gained strong understanding of computer architecture and assembly language, improving optimization by 10%.
  - Proficient in parsing techniques, achieving a reduction in compilation errors by 20% during design and testing.

### Education

<b>B.Tech</b> Jawaharlal Nehru Technological University Gurajada Vizianagaram		GPA: 8.0	
Computer Science		Oct 2021 – Present	
<ul style="list-style-type: none"><li>• <b>Coursework:</b> Computer Architecture, Computational Theory, Software Design, Compiler Design, Operating Systems, Database Management Systems, Data Structures and Algorithms, Linux Environments</li></ul>			
<b>12th</b>	<b>Sri Chaitanya Junior College</b>	96 %	Jun 2019 – May 2021
<b>SSC</b>	<b>Sri Chaitanya International School</b>	91 %	Jun 2018 – May 2019