

## E. Sai Tarun Reddy

Full Stack Developer — Backend Engineer — Cloud Engineer  
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### Professional Summary

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Detail-oriented **Full Stack Developer** with 3+ years building **cloud-native, microservices**-driven products. Strength in **REST API development, CI/CD automation, and data pipelines** at scale. Deliver measurable impact (perf, reliability, security) using **Python, Angular/React, and AWS**. Azure Fundamentals & Python Full Stack certified.

### Core Competencies

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Full Stack Development, REST API Development, Microservices Architecture, AWS (EC2, S3, Lambda), Containerization (Docker), CI/CD (GitHub Actions), Python, JavaScript, TypeScript, Angular, React, SQL, PostgreSQL, MongoDB, PySpark, Airflow, API Integration, Database Optimization, Monitoring (Prometheus, Grafana), Agile/Scrum

### Technical Skills

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**Languages:** Python, JavaScript, TypeScript, SQL, HTML/CSS  
**Frontend:** Angular, React (basic), NgRx, NX Monorepo  
**Backend/Tools:** Flask, FastAPI, REST APIs, Docker, Git  
**DevOps/Cloud:** GitHub Actions, AWS (EC2, S3, Lambda), Prometheus, Grafana  
**Data:** PostgreSQL, MongoDB, MySQL, Snowflake, PySpark, Airflow  
**Other:** Agile/Scrum, JIRA, Selenium, VS Code

### Professional Experience

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**Software Engineer – Full Stack** Apr 2020 – May 2023  
**Incentives Software Pvt Ltd, Hyderabad**

- Designed and shipped **microservices** with **Flask + Angular** for an incentive platform serving **20,000+ users**.
- Built **secure REST APIs** with **JWT** and input validation, cutting unauthorized access by **40%**.
- Delivered real-time **KPI dashboards** (engagement, redemptions, performance) using **PostgreSQL + MongoDB**.
- Re-architected **ETL** using **PySpark + Airflow**, improving ingestion throughput by **80%** on large employee datasets.
- Automated **PDF/Excel parsing** on **S3** via **AWS Lambda**, reducing manual ops by **70%**.
- Implemented **Prometheus + Grafana** monitoring (CPU, memory, DB latency), accelerating incident detection and MTTR.
- Built **CI/CD** with **Docker + GitHub Actions**, shrinking deploy time from **2h** to **10m**.
- Led and mentored a team of **4 juniors**; instituted code reviews and sprint rituals, boosting delivery velocity.

**Graduate Research Assistant – Information Systems Lab** Jan 2025 – May 2025  
**Cleveland State University, OH**

- Developed **Python** analytics dashboards for IT/academic ops, reducing manual reporting by **60%**.
- Deployed **Flask microservices** for student data visualization and departmental insights.
- Tuned queries and caching to reduce system slowdowns/downtime by **15%**.

### Projects

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**FaceNest – AI Facial Recognition with Access Control** 2024

- Built **OpenCV + AWS Rekognition** access control; **Raspberry Pi GPIO** lock control and cloud logging/monitoring.

**CryptoTracker – Real-Time Portfolio Web App** 2023

- React + Flask dashboard with live data (**CoinGecko API**); watchlists, alerts, and Chart.js visualizations.
- Deployed on **AWS EC2** via **Docker**; automated updates with **GitHub Actions**.

**Smart Resume Parser + Job Matcher (ML/NLP)** 2022

- NLP parser using **spaCy + FastAPI**; JSON structuring, JD match via TF-IDF cosine similarity.
- Streamlit UI for drag-and-drop resumes and ranked job fit scores.

### Education

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MS in Information Systems, Cleveland State University, OH May 2023 – May 2025

B.Tech in Information Systems, JNTU Hyderabad, India May 2017 – May 2022

### Certifications

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Microsoft Certified: Azure Fundamentals  
Certified in Python Full Stack Development  
JavaScript Algorithms and Data Structures