

# Goutham Raju Kosuru Srinivasa

gouthamraju224@gmail.com | +1 (602) 696-9216 | linkedin.com/in/gouthamraju11 | github.com/Gouthamraju11 | gouthamraju11.github.io

## SUMMARY

Full-Stack Software Engineer with 2+ years of production experience building scalable systems end-to-end. At Neudesic (IBM), served as on-call DRI maintaining **99.5% uptime** across applications serving **2,000+ daily users**. Proficient in C#/.NET Core, TypeScript, React, Node.js, Python, Azure, and AWS. Uses Claude Code, GitHub Copilot, and Cursor daily. Published researcher in embedded ML. M.S. Information Technology, ASU — GPA 4.0. Available immediately.

## EDUCATION

**Arizona State University, Tempe, AZ** Dec 2025  
Master of Science in Information Technology — *With Distinction* **GPA: 4.0 / 4.0**

## CERTIFICATIONS

**AWS Academy Graduate — Cloud Architecting** | Amazon Web Services Nov 2025  
**Machine Learning for Natural Language Processing** | Amazon Web Services Apr 2025

## TECHNICAL SKILLS

**Languages:** C#, TypeScript, JavaScript, Python, Java, C++, HTML5, CSS3  
**Frontend:** React.js, Next.js (SSR/SSG/App Router), Angular, Tailwind CSS, Redux/NgRx, Responsive and Accessible UI  
**Backend and APIs:** .NET Core (6+), Node.js, FastAPI, RESTful APIs, GraphQL, Microservices, AWS Lambda  
**AI and ML:** LangChain, AWS Bedrock, TensorFlow Lite, OpenCV, NLP, Computer Vision, Multi-Agent Pipelines  
**Cloud and DevOps:** Azure (App Services, DevOps, Application Insights), AWS (Lambda, API Gateway, DynamoDB, Bedrock), Docker, Kubernetes, CI/CD  
**Databases:** PostgreSQL, SQL Server, DynamoDB, MongoDB, Supabase (Auth, RLS), Query Optimization  
**AI Tooling:** Claude Code, GitHub Copilot, Cursor  
**Core:** System Design, Distributed Systems, Algorithms and Data Structures, RBAC, Security, Testing, Observability, Agile/Scrum

## EXPERIENCE

**Community Dreams Foundation** — Software Engineer Feb 2026 – Present  
*Tech:* React, Next.js, TypeScript, Node.js, FastAPI, PostgreSQL, Supabase, GraphQL, REST APIs, Docker

- Architected STEM-Link Platform end-to-end — designed API layer, React/Next.js front-end, and full database schema (76 tables); implemented AES-256 encrypted storage, signed URL access controls, and NIST-aligned RBAC (Student, Employer, Admin); platform onboarding **20+ beta users** across initial cohort.
- Built a 72-test regression suite covering RBAC, DB-enforced state transitions, and race conditions — all passing; produced NIST-aligned Technical Inventory Document covering full encryption posture.

**Neudesic (An IBM Company)** — Software Engineer Feb 2022 – Jan 2024  
*Tech:* C#, .NET Core, TypeScript, JavaScript, React.js, Angular, Node.js, REST APIs, PostgreSQL, Azure, Microservices

- Engineered full-stack features across 3 production applications — asset tracking, maintenance workflows, real-time event monitoring — serving **2,000+ daily users** with zero data-loss incidents over 2 years.
- Cut API latency by **32%** by redesigning N+1 query patterns; reduced frontend runtime errors by **40%** via TypeScript migration; maintained **99.5% uptime SLA** as on-call DRI.
- Accelerated CI/CD reliability by **25%** through pipeline diagnosis; built reusable React and Angular component library adopted across all 3 codebases.

**The Sparks Foundation** — Software Engineer (Internship) Aug 2021 – Oct 2021  
*Tech:* Python, AWS Lambda, API Gateway, DynamoDB, SAM, Docker

- Built serverless backend (Lambda, API Gateway, DynamoDB) sustaining **1,000+ daily transactions at sub-300ms latency**; IaC via AWS SAM cut provisioning time by **80%**.

## PROJECTS

**Multi-Agent AI Document Processing Pipeline** — AWS Bedrock, LangChain, FastAPI, Python, React.js, Next.js

- Designed a multi-agent LLM workflow (classify → extract → validate) processing **500+ documents per batch** with 60% reduction in manual processing time; modular FastAPI backend with extensible agent interfaces and React.js/Next.js review UI.

**Object Detector and Reader for the Visually Impaired** — Python, TensorFlow Lite, YOLOv3, OpenCV, Raspberry Pi 4

- Deployed real-time object detection and OCR on embedded hardware achieving **15+ FPS** via TensorFlow Lite quantization; co-authored peer-reviewed research published in IRJMETS (Impact Factor: 6.752).

## PUBLICATION

**Object Detection and Text Reading Device for the Visually Impaired**

IRJMETS | Impact Factor: 6.752 | 2022 | Real-time YOLOv3 and Tesseract OCR on Raspberry Pi 4; TensorFlow Lite quantization achieving 15+ FPS. Peer-reviewed and published; full paper available on request.