

SANDEEP REDDY THIPPAREDDY

Atlanta, GA(Open to relocate) | 404-203-1543 | sandeepthippareddyedu@gmail.com | LinkedIn | Portfolio | GitHub

PROFESSIONAL SUMMARY

Software Engineer specializing in scalable cloud architectures and distributed systems. Proficient in Python, C#.NET, and AWS with hands-on experience in serverless APIs and microservices.

EDUCATION

Georgia State University <ul style="list-style-type: none">Master of Science, Computer Science	08/2023 – 05/2025 GPA- 3.94/4.0
Sathyabama University <ul style="list-style-type: none">Bachelor of Engineering, Electronics and Communication	08/2015 – 05/2019 GPA- 3.8/4.0

SKILLS

- **Programming Languages:** Python, C#, JavaScript, Data Structures & Algorithms
- **System Design:** Scalable System Design, Load Balancing, Event-Driven Design, Caching Strategies
- **Backend:** .NET, .NET Core, Web API, RESTful Services
- **Frontend:** React.js, Angular
- **Cloud Platforms:** AWS (Lambda, S3, API Gateway, DynamoDB), Azure (VMs, AKS, Functions, Cosmos)
- **Databases:** SQL Server, MySQL, NoSQL
- **DevOps & Tools:** Docker, Kubernetes, GitHub Actions, Linux, Jira, Agile, Scrum

WORK EXPERIENCE

Software Engineer ResMed <ul style="list-style-type: none">Architected serverless APIs on AWS Lambda and API Gateway, reducing latency by 16% while ensuring 99.99% availability.Migrated 240+ legacy components to AWS using Infrastructure as Code (IaC) with AWS CDK, achieving 12x scalability and reducing operational costs by 5%.Engineered reusable NuGet packages to standardize cloud architecture patterns, accelerating project setup by 30% across 5+ teams.Automated CI/CD pipelines using GitHub Actions, cutting deployment times by 4% and ensuring error-free releases for deployments.	05/2024 – Present Atlanta, GA
Software Engineer Mphasis Limited <ul style="list-style-type: none">Optimized serverless computing workflows using AWS Lambda, achieving a 15% reduction in execution costs and enhancing system reliability for high-demand applications.Developed a real-time video streaming platform with SignalR and React.js, supporting 1,000+ concurrent users.Spearheaded the migration of critical APIs to AWS API Gateway, reducing downtime during deployments and improving API response time by 20%.Enhanced data security by implementing fine-grained access controls using IAM policies, safeguarding critical application workflows.Collaborated with cross-functional teams to deliver scalable solutions, achieving faster deployments with 30% reduced costs.	11/2021 – 07/2023 Bangalore, India
Software Engineer HCL Technologies Limited <ul style="list-style-type: none">Automated financial calculations for policyholders using nightly batch jobs, processing 500K+ records with 100% accuracy.Migrated legacy systems to Azure cloud-native architecture, reducing technical debt by 20%.Optimized SQL queries and database indexing, reducing query execution time by 40% and improving throughput for processing millions of records daily.Achieved 90%+ test coverage with xUnit and Moq, ensuring zero critical defects in production deployments.	07/2019 – 11/2021 Chennai, India

PROJECTS

Predictive Modeling for Research Trends | Python, BERT, LSTM [GitHub](#)

- Built an NLP-based framework to forecast research trends, solving scalability challenges and improving forecasting accuracy by 30%.

Event Management Platform | React.js, C#, .NET, Docker [GitHub](#)

- Designed and implemented a platform managing 1,000+ participants, reducing latency by 18% and enhancing user engagement.

Breast Cancer Health Chatbot | Python, Flask, NLP [GitHub](#)

- Developed an AI-powered chatbot delivering breast cancer insights, achieving 97% response accuracy and serving 300+ weekly users.

CERTIFICATIONS

- Microsoft Certified Azure Developer
- AWS Certified Cloud Practitioner

LEADERSHIP & AWARDS

- **Innovation Leadership Award – Mphasis:** Led the migration of a monolithic system to cloud-native microservices, achieving 6% improvement in scalability and enabling high availability for critical services.
- **Excellence in Mentorship Award – HCL:** Mentored junior developers in OOP best practices, maximizing team productivity by 10%.