# CHAITANYA MALEPATI

Boston, MA | 617-212-7423 | malepati.c@northeastern.edu | LinkedIn | GitHub | Portfolio

## EDUCATION

**Masters in Computer Software Engineering**                                   **Expected May 2026**
Northeastern University, Boston, MA
**Coursework** - Object Oriented Design, Web design, Program structures and algorithms, Cloud Computing

**Bachelor of Technology in Computer Science and Engineering**                 **Dec 2020 - May 2024**
Sri Venkateswara Engineering College, Tirupati, India

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript, Go, Java, C, C++
**Database Technologies:** PostgreSQL, MongoDB, MySQL, Redis, SQL Server
**Web Technologies:** React.js, Express.js, Spring Boot, HTML, Figma, Tailwind CSS
**Cloud Tools:** AWS, Docker, CI/CD, Terraform, Ansible, Shell Scripting, Kubernetes
**Tools:** Git, GitHub, IDEs, Linux, Vim, Microsoft Office

## EXPERIENCE

**Software Engineer Intern**                                                   **Oct 2023 - Mar 2024**
Young minds Technology Solutions, Tirupati, India

- Contributed to software development life cycle by collaborating with the team to resolve bugs in node and java
- Assisted in Designing scalable distributed systems using a microservices architecture and AWS services
- Involved in Integrating Terraform to spin up the services with Ansible, automated the deployment of infrastructure reducing manual setup by 60%
- Proactively learned emerging technologies (e.g., serverless computing, IaC) to contribute to team goals and enhance technical versatility

## PROJECTS

**CLOUD NATIVE APPLICATION**

- Implemented Infrastructure as Code using Terraform to automate provisioning of AWS resources (VPC, EC2, RDS, S3, Lambda, IAM, SNS, CloudWatch)
- Configured DNS routing with Route 53, SSL/TLS termination via ACM, and domain management for end-to-end HTTPS
- Orchestrated dynamic scaling using Auto Scaling Groups (ASG) and Elastic Load Balancer (ELB), ensuring high availability during traffic spikes
- Secured sensitive data using AWS KMS, encrypted EBS volumes/S3 buckets, and managed secrets via AWS Secrets

**SESSION MANAGEMENT**

- Built a secure token-based authentication system using Go and Redis, storing temporary session tokens with automatic expiry to protect inactive users
- Automated CI/CD pipelines using Jenkins and GitHub Actions to test code, build images, and deploy updates to the Kubernetes cluster seamlessly
- Containerized the application with Docker and deployed it on AWS EKS (Kubernetes), leveraging RDS for PostgreSQL and ElastiCache for Redis to increase scalability

**SPEECH GUARDIAN**

- Built VoiceBridge, an AI model that helps people with speech differences communicate with voice assistants, using PyTorch and real-world voice data
- Using PyTorch, I took an existing speech-recognition tool (like the ones used in voice assistants) and tweaked it with the new data

**Hotel Booking System**

- Optimized RESTful APIs to ensure seamless communication between frontend using React and backend using Node.js
- Integrated a ChatGPT-API chatbot to enhance customer experience by providing instant responses to inquiries
- Utilized Sequelize ORM for efficient database operations and migrations, ensuring seamless schema updates

## CERTIFICATIONS

- AWS CERTIFIED CLOUD PRACTITIONER