

Chaitanya Durgesh Nynavarapu

+1 (312) 358-1090 | chaitanyadurgesh04@gmail.com | linkedin.com/in/chaitanya-durgesh-nynavarapu/ | github.com/ChaitanyaDurgesh

PROFESSIONAL SUMMARY

Software Engineer designing, developing, and deploying scalable full-stack web applications and RESTful APIs. Leverages Python, Java, JavaScript, and cloud-native technologies, with expertise in microservices architecture, CI/CD pipelines, and agile methodologies. Committed to building robust systems, optimizing application performance, and delivering clean, maintainable code. Eager to contribute technical skills to impactful software development projects.

EDUCATION

Illinois Institute of Technology

Chicago, IL

M.S. in Computer Science

May 2025

Sri Indu College of Engineering and Technology

Hyderabad, Telangana

B.Tech in Electronics and Communication Engineering

June 2023

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML, CSS

Frameworks: Flask, FastAPI, React.js, Node.js, Express.js

Cloud & Databases: Google Cloud Platform (GCP), MySQL, Postgres, MongoDB, Firebase

Tools & DevOps: Git, GitHub, Docker, TensorFlow, PyTorch, Prophet, StatsModels, OpenCV, NumPy, Matplotlib, Scikit

Development Practices: RESTful API Design, Microservices, JWT Authentication, Agile Scrum, CI/CD Pipelines

EXPERIENCE

ABE Scott Enterprises

April 2025 – Present

My Ride Link / Backend Developer

Remote

- Developing robust RESTful APIs using Node and Express to facilitate real-time ride fare comparison.
- Integrated Uber and Lyft APIs, implementing Redis caching to reduce API response latency by 40%.
- Architected backend microservices with JWT authentication, Firebase integration, and Google OAuth.
- Implemented Twilio SMS verification and rate-limiting for secure and scalable user access.

PROJECTS

GitHub Analytics and Forecasting Platform

December 2024

Python, Flask, React, TensorFlow, Prophet, StatsModel, GCP, Docker, Elasticsearch

- Built a full-stack platform to analyze GitHub repository metrics and forecast trends using ML models.
- Deployed services on Google Cloud using Docker containers and GitHub Actions for CI/CD automation.
- Integrated Elasticsearch, reducing query response times by up to 60% for semantic search and real-time data retrieval.

FlightAware Database System

July 2024

Flask, SQLAlchemy, HTML/CSS, SQL

- Designed a CRUD-based web application supporting 12+ entities and 150+ records.
- Implemented complex SQL queries using joins, unions, and aggregations for report generation.
- Secured web views with form validation and template rendering for 10+ user-facing pages.

Traffic Sign Recognition

May 2023

Keras, OpenCV, NumPy, Matplotlib

- Trained a convolutional neural network on GTSRB dataset, achieving 89% classification accuracy.
- Optimized GPU utilization and improved data preprocessing for 25% faster training.

Sentiment Analyzer for Restaurant Reviews

June 2022

TensorFlow, PyTorch, NLP

- Built deep learning NLP model using TF-IDF and lemmatization techniques for 85% sentiment accuracy.
- Streamlined NLP text pipeline (stopword removal, tokenization, vectorization) to enhance model input and accuracy.

CERTIFICATIONS

- Databricks Fundamentals Accreditation – Databricks (2025)
- Software Engineering Simulation – Wells Fargo Forage Program (2024)

EXTRACURRICULAR ACTIVITIES

- Led student workshops as School Captain, increasing participation by 25%.
- Coordinated logistics for 5+ tech conferences, managing 100+ attendees and guest speakers.