

# ADITHYA N

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Seeking **Full Time** opportunities in Backend/ML Engineering starting from **May 2024**

## TECHNICAL SKILLS

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**Languages:** Java, Python, C++, Go, TypeScript

**Backend:** Django, GraphQL, Kubernetes, Redis, Cypress, FastAPI, OAuth, MySQL, MongoDB, PostgreSQL, RabbitMQ

**AWS:** S3, EC2, Lambda, SQS, ECR, ECS, Glue

**Devops/Observability:** Github Actions, Docker, Terraform, Datadog, Elasticsearch, Logstash, Kibana

**Machine Learning:** LLMs, TensorFlow, PyTorch, Airflow, TFServing, TorchServe, Deep Learning, Pandas, Numpy

## EXPERIENCE

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**Skit.ai**, Bangalore, India

December 2021 - August 2022

**Backend Engineer**

**Tools:** AWS, Go, Kubeflow, Pandas, PostgreSQL, FastAPI, Python, Numpy, PyTorch, TorchServe

- **Drastically reduced manual data curation efforts while reducing remote ec2 setup from 3 hours to 4 minutes** by developing data ingestion and generation tools, leveraging parallel processing techniques to streamline speech/text retrieval and speech/text preprocessing workflows using **Go routines**.
- Reduced speech recognition model **benchmarking experiment execution time from 2 days to 3 hours** by designing **Kubeflow Pipelines** to run these experiments at scale.
- **Increased solutions engineering deployment efficiency by over 20 percent** by building an automated client-independent data generation and model finetuning **REST API, written using FastAPI**.
- **Significantly reduced Speech Recognition Error Rate and A/B testing setup time** by building a **Python library** that streamlined complex join queries for **PostgreSQL** production and staging databases.

**Stride.ai**, Bangalore, India

May 2021 - July 2021

**SDE**

**Tools:** AWS, React, Javascript, FastAPI, Python, Django, Kafka, Pytest, Redis, MongoDB

- Architected a Multilingual Key Phrase recognition **REST API using Python's Gunicorn, Redis and Asyncio**, boosting recognition speed by 30% using **Write-Through Caching**, and deployed the same on AWS EC2. Tested the same using **JMeter, Pytest and Postman**, substantially **increasing test coverage by approximately 90%**.
- Spearheaded the **design of an end-to-end full-stack PDF annotation tool**, decreasing Document Annotation time **from 2 days to 7.5 hours**, using **FastAPI, React, Mongoose, Redux, and Cypress**.
- **Designed, developed, and deployed a scalable end-to-end Dutch PDF text detection/extraction REST API and Python module for a large European Bank**, facilitating seamless integration and accommodating increased demand, using **Kafka MQ and Django based microservices**. This resulted in **approximately 10000 USD in monthly revenue and scaling to a 30M strong customer base**.

**Shell**, Bangalore, India

September 2020 - April 2021

**IT Software Engineer**

**Tools:** SAPUI5.js, Javascript, PostgreSQL, ABAP

- **Devised and built ETL pipelines** for bank-specific regulatory services and **reporting tools for international payments using SQL and Object-Oriented ABAP, routinely used by global HR and Financial Reporting team**.
- Built a scalable Fullstack App using REST-based OData and SAPUI5.js to **visualize and monitor real-time updates from Shell Retail**.

## TECHNICAL SKILLS

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[Fake StackOverflow](#) | [React](#), [Node](#), [MongoDB](#), [Express](#), [Cypress](#), [Sessions](#)

December 2023

- Built a clone of the popular Q/A platform 'Stack Overflow', complete with Session Management, ORM's and end-to-end testing with Cypress. Used Builder and Factory Patterns to abstract functionalities in Javascript.

[PaperGraphr](#) | [React](#), [D3.js](#), [MongoDB](#), [Node](#), [Docker](#), [TypeScript](#)

April 2023

- Designed and Developed and Deployed a Community Visualizer for the DBLP citation analysis dataset, with built-in features to choose graph connection heuristics and graph-centrality based community filtering mechanisms.

## EDUCATION

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**Northeastern University - Khoury College of Computer Sciences**, Boston, United States

May 2024

Master of Science in Computer Science

**Ramaiah Institute of Technology**, Bangalore, India

September 2022

Bachelor of Engineering in Computer Science