ARCHIT PANDE

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EDUCATION

College of Arts and Sciences, Georgia State University August 2023 – Present
Master's in Computer Science GPA: 4.3/4.3
Graduate Research Assistant, Institute for Insight

- Responsible for designing and implementing the system architecture and deployment pipelines for generative AI/ML models. Currently working on designing a chatbot for people with anxiety disorders.
- Working with Redis as cache and vector database, and Kafka as the message bus while deploying the models in a Flask application using Python, deploying LLama models using GPU acceleration.

College of Engineering, Guindy, Anna University April 2021
Bachelor of Engineering in Computer Science and Engineering GPA: 7.67/10

EXPERIENCE

MYCOM-OSI Gurugram, India
Software Development Engineer April 2022 - July 2023

- Spearheaded the low-level design and implementation of an effective solution addressing data loss issues in raw counters and key performance indicators collection from network elements. It led to a 100% reduction in data loss and better management of network elements.
- Led several critical technology stack upgrades within the company, yielding a 10% reduction in operational costs and better microservices deployment management. Activities included transitioning Elasticsearch clients from Transport to REST client and updating helm chart deployments to the latest version for better CI/CD management.
- Provided dedicated customer support to major telecom clients including Airtel, Vodafone UK, and Saudi Telecom, successfully resolving various technical issues and bugs to ensure optimal service delivery.

Senuelo Advertising Remote
Artificial Intelligence Developer Intern May – July 2020

- Designed and implemented an end-to-end NLG application that generates short articles on a given topic with the goal of creating relevant content to boost search rankings.
- Worked with the latest pre-trained language models (GPT-2 and CTRL) and fine-tuned the models on topic-specific datasets gathered by scraping the top 100 Google search results through a custom search engine. Allowed content writers to save up to 4 hours/article and the MVP helped generate 120 articles.

SKILLS

Functional: Data Structures and Algorithms, Programming, CI/CD, Database Management

Languages: Java (Expert), **C++** (Proficient), **JavaScript** (Proficient), **Python** (Proficient)

Tools: Redis, Docker, EKS, AWS, Elasticsearch, Maven, Kafka, Zookeeper, SQL, Shell Scripts, OpenShift

ACADEMIC PROJECTS

Blockchain Distributed System - Java, TCP and JSON May 2021

- Built a stand-alone blockchain and a distributed system where a remote client interacts with the blockchain API. Implemented the RSA Algorithm to generate and verify Decentralized Identifiers for the Self-Sovereign Identity use case. Added a JSON client-server interaction over TCP sockets. Gained an understanding of distributed systems and blockchains through first-hand implementation.

Sorting and Search Algorithms Visualizer- JavaScript, React, HTML April 2021

- Implemented a sorting and pathfinding visualizer using JavaScript, React, HTML and CSS. The application provides a pictorial and interactive representation of commonly used sorting and search algorithms. Both the applications were then deployed using GitHub pages.

Prediction and Classification of Skin Diseases Using Deep Learning April 2019

- Designed a model for prediction of skin diseases using Convolutional Neural Networks (CNNs). Using medical images, which are preprocessed and then fed to the CNNs, the model could predict as many as twenty skin diseases or lesions with an accuracy of around 88%.

LEADERSHIP

- **Volunteer at Midtown High School, Atlanta**: Mentoring and aiding high school students of the G3 robotics team with Java programming and writing clean and readable code. (Sept 2023- Present)
- **Student Organizer**, CEG Tech Forum, College of Engineering Guindy. (2017 - 2018)