Pragya Das

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Profile

Tech-savvy and analytical student with a strong academic background in computer science with a passion for solving complex problems, programming, and software development. My strengths include excelling in collaborative environments, adapting rapidly, and consistently delivering results, even when faced with challenging project timelines.

Education

PES University - Bangalore, India **December 2021 - Present**
Bachelor of Technology: Computer Science *CGPA: 9.13/10*

AECS Magnolia Maaruti Public School - Bangalore, India **February 2019 - April 2021**
High School *XII (CBSE): 95.6*

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, C
Software: PySpark, Wireshark, Hadoop, Kafka
Tools: Contiki OS, Kali Linux

Experience

Goldman Sachs **June 2024 - July 2024**
Summer Analyst *India*

- Created a data-dictionary website for the team.
- Choose and design the schema of the database.
- Implement visualize, bulk upload, and search features .
- Built the application using React, Flask, and db2 for the database.
- Learnt agile strategies for development with frequently changing requirements and fast prototyping.

EA Plus LLC **June 2023 - July 2023**
Summer Intern *United States*

- Explored various identity platforms to facilitate the migration to a multi-tenant architecture.
- Evaluated potential identity solutions and contributed my learnings in the decision-making process for the project.
- Designed and implemented a proof of concept (POC) using Google Identity Platform, demonstrating the feasibility of the multi-tenant migration.

PESUIO **March 2024 - May 2024**
Subject Matter Expert *India*

- Coached juniors on the basics of Capture the Flag.
- Explained the basics of Cryptography, Forensics, and Information Security to students.
- Conducted a CTF for final evaluation

Projects

Synergistic EcoSystem for Education and Recruitment | *ReactJS,Apache Kafka,LangChain,LLM's* **Ongoing**

- ***Developing a Collaborative Platform for Education and Recruitment***: Implementing a web application to bridge the gap between students, universities, and recruiters, facilitating communication and collaboration among these stakeholders.
- ***Implement Tailored Learning and Course Recommendations:***: Leveraging LangChain and Kafka to analyze student profiles and recommend relevant courses, ensuring skill alignment with industry demands and individual academic goals.
- ***Industry-University Course allignment***: Analyzed top university course syllabi from Coursera, enabling dynamic syllabus updates for universities based on real-time industry insights.
- ***Job Description Filter:***: Developed a core LLM-powered model to analyze job descriptions and rank candidates from a vector database based on semantic similarity and skill relevance.
- ***Integration with LangChain Framework***: LangChain focuses on Managing the flow of information between the LLM, VectorDB, and potentially other data sources.

YADFS | *Python, Linux* **August 2023**

- ***Distributed Storage System Architect***: Implemented data nodes for efficient storage and retrieval, complemented by a resilient name node with 100% uptime.
- ***Fault-Tolerant Data Handling***: Engineered fault-tolerance mechanisms, including a replication strategy and continuous health checks for DataNode reliability.
- ***User-Centric Interface Developer:***Designed an intuitive client interface, empowering users to perform operations like directory creation, file management, and seamless uploads/downloads.

Emotify | *Python, Spotify API, Flask* **April 2023**

- ***Hackathon Collaboration***: Emotify was a collaborative effort undertaken as part of a hackathon under the track Data Science and Intelligent Communication.
- ***Facial Recognition Technology***: We used Convolutional Neural Networks, to analyze users' facial expressions and determine their emotional states.
- ***Machine Learning Recommender Model***: We implemented a machine learning recommender model leveraging K-means clustering that used the analyzed emotional data to suggest a music playlist tailored to the user's current mood using Spotify.

Migrating a monolithic application to a microservices architecture | *Flask, MongoDB, React* **March 2024**

- ***Strangler Pattern***: Each discrete functionality of the application was converted into a standalone microservice.
- ***Fault-Tolerant Data Handling***: Created an e-commerce CRUD application that used RESTful APIs for communication.
- ***Deploy and Orchestrate:***Built Docker images for each microservice using the corresponding Dockerfiles. Used Kubernetes to deploy the application and configure the yaml files to bring the application together.

Election Management System | *Java, Springboot* **March 2024**

- ***Design Pattern***: Implemented multiple design patterns.
- ***OOPS***: Used Object Oriented Programming concepts to build the application.

Research Work

Disaster-Resilient Smart City Framework **7-8 October 2023**

- ***Objective***: Conducted research to determine optimal Internet of Things (IoT) protocols for earthquake emergency response in smart cities.
- ***Cross Layer comparison***: Evaluated and compared protocols across Network, MAC, and RDC layers in the Contiki OS, using the Cooja simulator for realistic IoT network simulations.

Certifications

Scholarships: Awarded a 40% tuition fee waiver in semesters 1 and 2 for placing in the top 15% of the batch. Additionally, granted a 50% Scholarship in semesters 3, 4 and 5 for ranking in the top 5% of the batch.
Top 10 in CTF: Achieved a top-10 ranking in the CTF event organized by ISFCR at PES University.
Organized CTF for Ideathon: Successfully organized a CTF competition for an Ideathon at college.