Sandeep Kumar

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EDUCATION

Indian Institute of technology Hyderabad

Telangana, India

Bachelor of Technology - Computer Science; GPA: 7.29

July 2018 - June 2022

Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases

SKILLS SUMMARY

• Languages: C, Python, C++, JavaScript, SQL, C, JAVA, Go, P4 • Frameworks: Scikit, SpaCy, TensorFlow, Keras, Django, Flask, NodeJS

Tools: GIT, PostgreSQL, MySQL, SQLite

• Platforms: Linux, Web, Windows, Arduino, Raspberry, AWS

Experience

I'm Beside You - Tokyo, Japan

Remote

Software Developer Intern (Full-time)

Dec 2020 - Jun 2021

- o Tech Stack: .NET, Python, SQL, Scikit, Tensorflow, Keras
- Development: Worked on full-fedged Windows Application Development with SQL and NoSQL transactions using .NET framework. Built analytic systems and predictive facial recognition models using simple CNN, VGG-16, Xception and compared their accuracies.

TeamAIBOD - Fukuoka, Japan

Remote

Software Developer Intern (Full-time)

Jan 2022 - Mar 2022

- o Tech Stack:: Python, Scikit, Tensorflow, Keras, SQL
- Development: Implemented a practical application of cashless system for unmanned cashless store "BAITEN-STAND". This next-generation unmanned store service combines high-precision image recognition technology using the unique design concept "AI Fusion" that combines optimal AI with "BioPay", a empty-handed payment service based on Glory's

Indian Institute of Technology - Hyderabad, India

Research Assistant (Full-time)

May 2022 - Present

- o Tech Stack: P4:Programming language for controlling packet forwarding planes in networking devices, such as routers and switches; Python
- o Development: Working on implementing a design to monitor network traffic of IoT devices. We propose a scalable data plane primitive and a system on top of the primitive, together enforces MUD profiles of thousands of IoT devices in a programmable switch data plane.

Projects

- Simulation of Musical chairs game (Multithreading, Multiprocessing): Simulated musical chairs game which involves multithreading where each player is represented by a thread and implemented synchronization of threads using synchronization primitives(mutex locks and condition variables are used) (September '21)
- Simulation of IMDB Database(Web Crawling, Data Analysis): Starting with ER Diagram and designing Relational Schema, we have simulated the IMDB Database using PostgreSQL in pgAdmin (March '20)
- LOGIRAY Compiler: As part of course project for Compilers, Designed a programming language for array computations and logic programming. Built its compiler frontend using Lex and Yacc (September '19)
- Smart street light system for highways: Built a prototype for an energy-efficient street lightning system using Arduino. This system has the potential to cut energy consumption to 50% of current usage (Dec '18)

Positions of Responsibility

TEDxIITHyderabad

Online Event

Finance Coordinator (Full-time)

(Jun 2020- Mar 2021)

o Key Responsibilities: As a Finance Coordinator, my prime objective is about managing and planning a budget for the event, associating with sponsors regularly and managing schedules of the event.

Entrepreneurship Cell, IIT Hyderabad

Offline Event

Associate Manager (Full-time)

Jun 2019 - Dec 2020

o Key Responsibilities: As an Associate Manager at E-Cell IIT-H, my prime objective is to develop the culture of thinking to prepare students for future entrepreneurial challenges. I managed fnances for E-SUMMIT 2019, responsible for managing and inviting sponsors for the event.

Volunteer Experience

Member of National Service Scheme

Telangana, India

Conducted blood donation and books donation camps impacting over 3000 students.

Jun 2018 - May 2022

Event Organizer at college community fest

Telangana, India

Organized events, conducted workshops and delivered workshops.

Mar 2018 - Apr 2018