SHIVAM NAYAK

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WORK EXPERIENCE

Software Developer
Media.net

📅 July 2022 – Present   📍 Remote

- Designing and developing Trading software from scratch, having been completely responsible for researching/testing Broker APIs and other trading provisions, and implementing POC.
- Worked on a early stage experimental product in crypto space. Built the end to end backend solution for realtime dashboard using OLAP database, being actively involved in infrastructure decisions.
- Technologies: Python, Django, PinotDB, Apache Hadoop Ecosystem, Go, Trading APIs, Flask, React, Kafka, gRPC, Websocket, REST, Elasticsearch, Jenkins.

Software Engineering Intern
Media.net

📅 January 2022 – June 2022   📍 Remote

- Explored the potential of neural networks in winrate and marketprice prediction in the AdTech space, researched latest published papers for the same.
- Built the pipeline for Tensorflow model deployment in Golang service. Conducted in depth accuracy and load testing of deployed models.
- Technologies: Python, Pandas, Tensorflow, Optuna, Golang, Docker, Kubernetes, Grafana.

Software Engineering Intern
Media.net

📅 May 2021 – July 2021   📍 Remote

- Big data analytics to come up with parameters to segregate visitors (of acquired ad spaces) into different groups. Created data pipeline to automate the population of the aforementioned parameters in database to be of use as potential features in ML models for further optimization of bidding process.
- Technologies: Apache Hadoop Ecosystem, MySQL, Apache Spark, Scala.

Software Development Intern
FIVE FINGERS INNOVATIVE SOLUTIONS

📅 January 2020 – April 2020   📍 Hyderabad, India

- Designed and developed a software system to automate the process of object identification, object extraction, and noise removal, for objects in a 3-D scene.
- Technologies: OpenCV, Tensorflow, Django, Cloudcompare.

EDUCATION

B. Tech in Computer Science and Engineering
International Institute of Information Technology, Hyderabad

📅 July 2018 – May 2022   📍 CGPA: 7.84/10

EXTRACURRICULAR

- Member of Felicity Sports Organisation Committee.
- Member of College Football team.

ACHIEVEMENTS

ACM-ICPC 2020:
- **Team rank 349** in ACM ICPC Amritapuri online round. **Qualified for Amritapuri Regionals**.
- **Team rank 311** in ACM ICPC Amritapuri Regionals.

Competitive Programming Profile (Max) :
- **5 star coder** in **CodeChef**
- **Expert** in **CodeForces**

Other Scholastic Achievements :
- Secured **All India Rank 1100** in **JEE Advanced-2018** among more than 200,000 contesting candidates
- Secured **All India Rank 493** in **JEE Main-2018** among more than 1 million candidates
- Recommended, with an **All India Rank 690** for **KVPY** Fellowship Award-2016.

PROJECTS

Parallelized CRAFTML

- Implemented a parallelized version of an extreme multi-label learning algorithm called CRAFTML . **[C++, OpenMP, MPI]**

Xv6 Process Scheduler

- Added custom process schedulers including FCFS Scheduler, Priority Based Scheduler and MLFQ Scheduler in MIT Xv6 OS. **[C, Operating Systems]**

Small Scale Social Media Application

- Created android application that implements the use of most Firebase features like authentication, realtime database, storage to provide login/signup, realtime chat messaging, image uploading. **[Java, Firebase]**

Deadlock Detection Algorithms under various Message Delivery Channels

- Implemented Chandy Misra Haas algorithms (AND , OR Models) and Mitchell Merritt's algorithm under causal, fifo and non-fifo message delivery systems and compared the number of messages required to detect the deadlock for the different channels. **[C++, Python]**

Sky Force Replica

- Created a 2-D space shooter replica of the game Sky-Force using the three.js library **[Javascript, HTML, Blender]**