Digant Garude

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EDUCATION

State University of New York, Buffalo, *Masters in Computer Science,* **CGPA: 3.585/4**   Aug 2021 - Current
Courses: Distributed Systems, Algorithms, Information Retrieval, Blockchain Development
University Of Mumbai, *Bachelor of Engineering in Computer Engineering,* **CGPA: 8/10**   July 2015 - May 2019
Courses: Data Structures, Web technologies, Machine Learning, Object-Oriented Programming

TECHNICAL SKILLS

Languages   **:** Python, Java, JavaScript, TypeScript, PHP, C, Bash, Solidity
Server Side   : Node.js, Django, Flask, Fast API, Strapi
Client-Side   : Angular, React, jQuery, Ajax, HTML5, CSS3
Databases   : SQL, MongoDB, Firebase, Apache Solr
Cloud   : AWS, Google Cloud Platform, Azure blob storage
Other Technologies   : Docker, Apache Kafka, Git, Jenkins, Tensorflow, PyTorch, Scipy, HighCharts, Charts.js

TECHNICAL EXPERIENCE

Software Developer
Rejolut Technology Solutions Pvt Limited, Navi Mumbai, India   Oct 2020 - Mar 2021
- Developed RESTful web services in ExpressJs and integrated Hedera Hashgraph SDK for executing blockchain-based transactions between users and smart contracts. Utilized Firebase for sending real-time notifications for transactions.
- Optimized data sharing between smart contracts and databases to reduce redundancy and **transaction costs by 10%**.
- Tech Stack: Node.js, Express, Google Cloud Platform(GCP), MongoDB, Firebase Web Push, Docker, Nginx, Solidity.

Machine Learning Intern
Concerto Software and Systems Pvt Limited, Mahape, India   Nov 2019 - Apr 2020
- Built a Voice-based Payments application as part of a Hackathon organized by the National Payments Corporation Of India (NPCI) wherein our team ranked amongst the **top 15 finalists all over India**.
- Developed a data visualization framework using chartsjs library for business use cases.
- Prototyped an Automatic Trash Detection system in ATMs based on computer vision using surveillance camera feeds.
- Tech Stack: Python, Keras, Sklearn, cv2, Matplotlib, Android Studio.

Full Stack Developer Intern - University Internship   Jun 2017 - May 2018
DY Patil University, Navi Mumbai, India
- Mentored and collaborated with a team of **10** for development and integration of faculty management system.
- Enhanced Automatic Transcript Generation system by updating and developing new modules per requirements.
- Tech Stack: PHP, JavaScript, jQuery, SQL, HTML5, CSS3.

PROJECTS

Twitter Search Engine Application, Covid 19 and vaccine rhetoric analysis.
- Spearheaded the project and engineered an end-to-end search engine web application with sentiment analysis, topic modeling, possible anti-vax narrative, and analytics. Indexed **200k+ multi-lingual tweets** in Apache Solr.
- Identified and visualized excerpts of vaccine hesitancy amongst the general population and politicians.
- Tech Stack: Apache Solr, Angular, Express, Flask, Python, Mongo DB, AWS Comprehend & EC2, Highcharts.

Medical Insurance Payment Settlements based on Ethereum Blockchain
- Designed and built a payments ecosystem for automating the insurance settlements between patients, doctors, hospitals, and insurers using Smart contracts and ERC20 tokens.
- Tech Stack: Angular, Express, Mongo DB, Smart Contracts, ERC20 tokens, web3js.

Distributed Publisher Subscriber model for Github's Trending Repositories
- Implemented a distributed Publisher Subscriber model from scratch using Django and Flask that could be scaled to n publishers and subscribers dynamically using docker scripts.
- Improved the system using Apache Kafka for pubsub interaction and implemented fault tolerance between brokers.

RESEARCH: Published a paper on "Skin tone and Occasion Oriented Outfit Recommendation System" in the "2nd International Conference on Advances in Science & Technology (ICAST) 2019".

OTHER ACTIVITIES: Event Head of 'C' programming event at Techmate 2k17 organized by Computer Society of India.