Harsh Donga

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Education

Stony Brook University	**Stony Brook, NY, USA**
Master of Science in Computer Science	
Relevant Courses: Computer Vision, Distributed Systems, Theory of Databases	Dec. 2024 (Expected)
University of Mumbai	**Mumbai, India**
Bachelor of Engineering in Computer Engineering	*CGPA - 9.65/10.0*
Relevant Courses: Data Structures, OOP, Networks, Advanced OS, Cloud Computing	Aug. 2017 – May. 2021

Skills

Programming Languages: Python, JavaScript, Java, Bash, SQL, C++, HTML, CSS
Database and Analytics: MySQL, PostgreSQL, MongoDB, Firebase RTDB, SQLite, Redis, Google Data Studio
Frameworks, Tools and Cloud: Django, Node.js, Flask, React, React Native, Docker, REST, RabbitMQ, Tensorflow, Hyperledger Fabric, Git, Jira, GCP, AWS, Azure, Linux, Figma

Experience

ISTEM - SaralX **Delhi, India**
Senior Software Development Engineer (OCR Engine) - Python, AWS Auto Scaling, Sphinx May. 2022 – Aug. 2023
- **Optimized** document processing pipeline by converting memory intensive document requests to page-level async batched requests & auto-scaling computing instances averaging **3 times** faster outputs & achieving **67% decline** in failure rate.
- **Led R&D team of 4**, identifying creative solutions and workflow optimizations to **reduce cost** & **improve deployment timelines** and reduce potential barriers during development lifecycles.

Software Development Engineer (OCR Engine) - Flask, Keras, Sagemaker, OpenCV, Redis Jun. 2021 – Apr. 2022
- Built a document accessibility engine using Mask R-CNN (FPN), **boosting** semantic detection **accuracy by 59.5**%.
- Developed and deployed asynchronous APIs on AWS utilizing Flask, Celery, RabbitMQ & Redis **enhancing scalability** to over **10 times**, with effective server workload management and improving overall user experience.

Tata Consultancy Services **Chennai, India**
Software Developer Intern (Cognitive KRI Team) - Django, Selenium, AWS, PostgreSQL Mar. 2021 – May. 2021
- Devised a web scraper that collected **over 100GB** of market sentiment data of S&P 500 companies from 18 sources.
- Spearheaded a team of two developers to implement AWS Serverless Framework-based RESTful APIs which enabled credit analysis team to **reduce time taken** for loan approval background checks by **33%**.

TalentServe **Mumbai, India**
Engineering Lead (Mentorship & Careers Platform) - AWS, React.js, Docker, MongoDB Dec. 2019 – Feb. 2021
- **Led** agile team of **6 developers** to continuous deployment on AWS of SaaS EdTech solution with **over 30k users**.
- Overhauled the UI making it responsive, conforming to WCAG, and **decreased page load time by 76**%.
- Integrated RazorPay payments API enabling quick checkout for freemium services such as resume builder and mentor connect, helped **increasing 18% MoM** free-to-paid user conversions for 4 consecutive months.

CSIR-Central Drug Research Institute **Lucknow, India**
Open Source Blockchain Intern - Hyperledger Sawtooth, Docker-Compose, AWS ECS May 2019 – Jun. 2019
- Architected & created modular asset management Blockchain system with a **parallel transaction scheduler**.
- Collaborated with engineering team to **containerize** all services using **docker**, assist in creating & testing web app.

Projects

Waste Assist - Runners Up, Hack-N-Code Hackathon | Python, Keras, GeoCoding - Traffic API, AWS S3
- Built an incentive-based waste management application allowing users to pinpoint geolocation of garbage site backed by waste segregating CNN model (90.07% accuracy), suggesting concerned entities with optimal route for collection.

Easy Presentor | WebRTC, NLP, Bootstrap, Javascript
- Developed a modified TextRank algorithm leveraging NLP library 'spaCy' to extract keywords from documents & devised a presentation platform with remote broadcasting using Agora RTC APIs catering upto 200 users concurrently.

Leadership and Awards

Marketing & Sponsorships Head	ACM - DJSCE Student Chapter	Jul. 2019 – Jun. 2021
Publicity Head	ICACTA 2020, International conference in association with IEEE Bombay	Apr. 2019 – Mar. 2020
B-Plan	Winner, State-wide business planning event by DJs Nirmiti	Mar. 2019