

Viraj Thakkar

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SUMMARY

I am inquisitive, savvy with tech, and with an itch to enhance my knowledge and skills in all domains! Experienced in Distributed Databases, Computer vision, Full stack development, Machine Learning, robotics, and team management.

EDUCATION

M.S. Computer Science Arizona State University, Tempe, AZ	Expected Dec 2023 4.00 (4 scale)
B.Tech. Information Technology K. J. Somaiya College of Engineering, Mumbai, IN	July 2017 – Aug 2021 8.56 (10 scale)

TECHNICAL SKILLS

Languages: Python, C++, Bash, SQL, Matlab, HTML, JS, CSS

Tools & More: Git, Kubernetes, Docker, Django, Pandas, TensorFlow, AWS, Azure, GCP, IBM Quantum

Databases & OS: PostgreSQL, RocksDB, MySQL, SQLite, Windows, MacOS, Linux/Unix

Soft Skills: Project Management, Leadership, Consistency, Communication Skills, Creative problem solving

PROFESSIONAL EXPERIENCE

Cyber Peace Foundation, Mumbai, IN: Analyst (Intern)	03/2020 - 08/2020
<ul style="list-style-type: none">Developed automated crawling and investigating pipeline in 2 months for abusive content on various social media.Team Leader for creation of detection and reporting tool for fake/malicious COVID websites. The tool successfully analyzed over 10,000 websites, identifying, and reporting 503 websites as malicious.	
KEM Teaching Hospital, Mumbai, IN: Developer (Intern)	05/2020 - 08/2020
<ul style="list-style-type: none">Implemented and deployed an interactive dashboard for KEM Hospital to monitor patients in the COVID-19 pandemic.Tool used for 7+ months in the pandemic, assisting in management and cleaning 5000+ patient records to create a centralized hospital records database.	
Somaiya Vidyavihar, IN & CIFF (Children's Investment Fund Foundation), UK: Junior Researcher	09/2019 - 03/2020
<ul style="list-style-type: none">Worked on how technology has brought about Online Child Sexual Abuse and Exploitation (OCSA & OCSE).Developed tool to automate search and filter instances of OCSE and OCSE in Legal Cases	

RELEVANT PROJECTS

RocksDB Instance Sync, Research Project C++, HDFS, RocksDB, Kubernetes, Docker	02/2022 - Ongoing
<ul style="list-style-type: none">Developed a distributed database service that provides multiple consistency levels within the same db.Currently implementing an ML model to automate assignment of consistency level to kv-pairs.	
Memories, Personal Project Python, OpenCV, PIL	08/2021 - Ongoing
<ul style="list-style-type: none">Creator and maintainer for the 'Memories' library for Image Segmentation and Metadata managementLibrary developed using Python libraries OpenCV, PIL. Future updates to be based on pandas.	
Project Chakravayuh, Research Project DevOps (Azure, Docker), scikit-learn, pandas, OpenCV	09/2018 – 10/2020
<ul style="list-style-type: none">Operated a team of 6, developing a distributed system for dark-web crawling with capabilities of text-analysis, media-analysis, form-filling, website monitoring.Successfully coded and integrated media-analysis module to automatically tag any media based on its content (metadata and computer vision) and form-filling module to access content hidden behind login prompts.	

EXTRACURRICULAR EXPERIENCE

Hackathon by SVB & ASU, Tempe, AZ	04/2022
<ul style="list-style-type: none">Participated and won 2nd place at hackathon organized in ASU by Silicon Valley BankWorked on development of full stack web application to connect Investors with Startups.	
Team KJSCE Robocon, Mumbai, IN	08/2018 - 08/2020
<ul style="list-style-type: none">Spearheaded a team of 40+ individuals and mentored members to take over the team in coming years.Worked on micro-controllers (Arduino) and micro-processors (RPI, Jetson Nano) along with various sensors (LiDAR, Camera, Ultrasound, Potentiometers, etc.) and control systems to create a unique mobile wheeled robot.Achieved National Rank 8 and Winner of Best Solution Idea amongst 50+ teams in "DD-Robocon 2020".	