TARUN KUKREJA

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Summary: Pursuing MS in Computer Science. 1.5 years of industry experience. Open to Software Engineering Internships for Summer 2022

EDUCATION

California State University East Bay, Hayward, CA   August 2021 - Present
Master of Science (MS) in Computer Science

Guru Gobind Singh Indraprastha University, New Delhi, India   August 2015 - May 2019
Bachelor of Technology in Computer Science and Engineering   GPA - 8.51/10.0

TECHNICAL SKILLS

Programming/Scripting Languages: Python, JavaScript, SQL
Frameworks and technologies: Django, Flask, React.js, Node.js, MySQL, MongoDB, Git, Virtualization, HTML5, CSS3
Cloud: AWS, Azure, Docker, Firebase
Systems: Linux, Windows, MacOS

WORK EXPERIENCE

ActiveBuildings (Pirhoalpha Research Pvt. Ltd.) | Software Engineer | Mumbai, India   January 2021 - August 2021
- Created **custom Dockerfiles** and **deployed applications on AWS** by building **Docker** images. These backend applications are **being used to log data** from air quality sensors deployed in buildings and warehouses **of 150 companies in India**
- Designed, developed, and versioned **REST APIs in Django**
- Developed a local network system to establish and maintain communication between hardware devices(Air Quality Sensors) and software(the windows machine)

Havells India Ltd | Software Engineer (Machine learning team) | Bangalore, India   January 2020 - June 2020
- Designed and developed **Ads Recommendation Engine** used to show products ads on the Havells app and **deployed it on Azure MLOPs** which is currently recommending products to **0.3 million customers** and have **increased the company's products sale by 9%**
- Contributed to developing **Alexa Smart Home Skills** and **Actions on Google** for the Havells smart home products which are controlled with the Havells app.
- Created a **custom JupyterHub on Docker,** allotting each contributor a container, enabling sharing of notebooks at will, and automatically backup the files on the host system.

Product Labs, IIIT Hyderabad | Product Engineer | Hyderabad, India   July 2019 - November 2019
- Critiqued the research paper Towards Structured Analysis of Broadcast Badminton Videos by pointing out the shortcomings and proposed solutions to those drawbacks. Suggested extensions to the paper
- **Improved training time by 1.45x and accuracy by 4%** of Player Stroke Segmentation in the research paper by applying **Pose Estimation** and CNN.
- Developed a website for Badminton Player Analysis using Node.js, MongoDB

GVCL Lab, IIIT Bangalore | Data Visualization Research Intern | Bangalore, India   June 2018 - August 2018
- **Data Preprocessing** and **Data Wrangling** of datasets of NFHS-4, project grant by IBM
- Developed **five interactive visualizations** (Cartogram Maps, Choropleth Maps, Correlation Matrix, Geovisualization, and Network Visualization) using **D3.js** to represent NFHS-4 Datasets.
- Reproduced VAT(Visual Assessment of Clustering Tendency) algorithm pseudocode into Python module to seriate correlation matrix visualization and gave a talk on the research paper

Markitiers | Android Developer Intern | Delhi, India   June 2017 - August 2017
- Developed **an app called Events Mosaic from scratch**, that connects event organizers, event attendees, interested sponsors, and speakers. The app received **100+ downloads** and an average rating of **4.8/5** on the Google Play Store.

PROJECTS

QElim Android App(Java, XML, Firebase)
- I created this **app to eliminate queues from restaurants**. People planning to dine into a restaurant could place their order from the app while they are on the way to the restaurant and could collect their order upon reaching the restaurant and dine-in without going through any queues. **The app was used by 10 restaurants and 100+ customers.**

Flick Android App(Java, XML, MoviesDB API)
- An app that will keep us updated on the trending, and upcoming movies. The app included movie trailers, duration, release date, cast, synopsis, average rating, and genre.

[OPEN SOURCE] Telegram Group Messages Personaliser (Python, asyncio, Telethon API)
- A bot that fetches messages from the telegram groups a user has joined and sends only those messages to the user which contain the keywords the user has inputted. Now a user won't have to scroll through tons of messages on telegram groups to look for messages of his/her interest.