

VEDANG WARTIKAR

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EDUCATION

- **The University of Texas at Dallas** Dallas, Texas
Master of Science (MS) - Computer Science (GPA: 3.86 / 4.00) *August 2022 - May 2024*
 - Graduate Teaching Assistant for CS 3354 (Software Engineering) & CS 6359 (Object Oriented Analysis)
- **Savitribai Phule Pune University** Pune, India
Bachelor of Engineering in Computer Engineering (GPA: 8.76 / 10.00) *August 2016 - May 2020*

EXPERIENCE

- **CommScope** Dallas, Texas
Software Engineering Intern - Systems *May 2023 – August 2023*
 - Engineered a Switch Config application in **Python** for CommScope's **OneCell LTE/5G** architecture which utilizes SPEC file parsing and RUCKUS vSmartZone **APIs** to automatically configure switch port connections
 - Achieved a substantial **83%** reduction in switch port configuration time for onsite deployments and the application was added to the workflow a week after my internship
 - Devised a Snapshot Backup solution in **Kubernetes** pods using **TimeShift** that creates automated restore points to mitigate potential failures during OS release updates
- **Persistent Systems** Pune, India
Software Engineer *Nov 2020 – July 2022*
 - Developed a **Full-Stack** Currency management and analytics dashboard for open-source packages available on **IBM's ppc64le** architecture. Built it using **FastAPIs**, **MongoDB**, **Elasticsearch** and **React/JS** for UI
 - Built a tool called BulkSearch in **Python** that validates the compatibility of OSS packages on **IBM's POWER8** machines using **Docker** containers and **Jenkins** jobs which reduced team's workload by over **80%**
 - Reviewed **40+ Pull Requests** and published build scripts for **RHEL-based OS** and **Red Hat UBI containers** for OSS packages to run smoothly on IBM's Power8 platform
- **Sirpi** Bangalore, India
Data Scientist Intern *Aug 2020 – Nov 2020*
 - Responsible for the development of Wind Shear Application, built using **R**, **Shiny** and **AWS Stack**, which uses ML models to predict windspeeds from **50,000+** lines of daily CSV data and is being used by Wind Engineers
 - Built a multipurpose Business Chatbot called SirpiBot using **R** frameworks and **Plumber APIs** with **Twilio endpoints** along with a **Shiny** and **JavaScript** based interactive admin dashboard UI
- **RhythmFlows Solutions** Pune, India
Software Engineering Intern *May 2020 – Aug 2020*
 - Design and developed the backend of a bank reconciliation system in **Django** which cross-checks **100,000+** records to find fraudulent transactions
 - Worked on an API-Hub which provides uniform and secured handling of API push/pull requests from **5+** different data formats like **JSON**, **XML**, **CSV**, etc.

SKILLS

- **Languages:** Python, C, C++, R, JavaScript, SQL, Bash, Java, C#, Go
- **Frameworks:** Scikit, Django, Flask, FastAPI, TensorFlow, Drupal, React, PySpark
- **Tools/DBs:** Docker, GIT, Kubernetes, Ansible, Jenkins, PostgreSQL, MySQL, SQLite

PROJECTS

- **File System Emulator** CS 5343 (Operating System) - Fall 2023
 - FSE emulates **UNIX/Linux** File Subsystem using data structures like Incore Inode Table, File Table, UFDT, etc.
- **Political Conflict-based Spanish LLM** CS 6350 (Big Data) - Fall 2023
 - Compiled a **650MB** Spanish text corpus to build an (**LLM**) focused on political conflicts in Southern America
- **Space Analysis and Diagnostics Virtual Reality** CS 6334 (Virtual Reality) - Spring 2023
 - Built a VR game using **Unity**, **C#** scripts and Photon for multiplayer and deployed it on Android as an APK