

# Vedang Wartikar

Portfolio: vedang.dev

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## EDUCATION

- **The University of Texas at Dallas** Dallas, TX  
*Master of Science (MS) - Computer Science (GPA: 3.83 / 4.00)* *August 2022 - May 2024*
- **Savitribai Phule Pune University** Pune, India  
*Bachelor of Engineering in Computer Engineering (GPA: 8.76 / 10.00)* *August 2016 - May 2020*

## SKILLS SUMMARY

- **Languages:** Python, C, C++, R, Java, JavaScript, SQL, Bash, Java
- **Frameworks:** Scikit, Django, Flask, FastAPI, TensorFlow, Drupal, ReactJS
- **Tools:** Docker, GIT, Kubernetes, Ansible, Jenkins, PostgreSQL, MySQL, SQLite
- **Platforms:** UNIX/Linux, Windows, Drupal, Raspberry, AWS, IBM Cloud

## EXPERIENCE

- **CommScope** Dallas, Texas  
*Systems Engineering Intern* *May 2023 - Present*
  - **NICS:** Part of the Networking, Intelligent Cellular & Security (NICS) Engineering team at CommScope
  - **Orchestration:** Devising a robust backup solution in Kubernetes pods to ensure system reliability, creating automated restore points using TimeShift to mitigate potential failures during release updates
- **Persistent Systems** Pune, India  
*Software Engineer* *Nov 2020 - July 2022*
  - **Currency Dashboard:** Worked on an MVP that acts as a management and analytics dashboard for open-source packages available on IBM's ppc64le architecture. Built it using FastAPIs, Uvicorn, Elasticsearch and ReactJS for UI
  - **BulkSearch:** Built a tool which validates the currency of OSS packages on IBM's POWER8 machines and is configured to install/build/test sets of packages which reduced team's workload by over **80%**
  - **github.com/ppc64le/build-scripts:** Reviewed **40+** PRs 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 (Remote)  
*Data Scientist Intern* *Aug 2020 - Nov 2020*
  - **Wind Shear Application:** Responsible for the development of Wind Shear Application, built using R, Shiny and AWS Stack, which uses machine learning models to predict windspeeds from **50,000+** lines of daily CSV data and is being used by Wind Engineers
  - **Whatsapp Business Chatbot:** Built an end-to-end Business Chatbot using R frameworks and Plumber APIs with Twilio endpoints along with a Shiny based interactive admin dashboard UI
  - **Reprexes:** Solved **20+** open internal ReprExes which are integrated with statistical models
- **RhythmFlows** Pune, India  
*Software Engineering Intern* *May 2020 - Aug 2020*
  - **Reconciliation System:** Lead a team of **4** for an Analytics product developed in-house using R for bank reconciliation and implemented a generic library to check reconciliation status for **100,000+** transactions of different business entities
  - **AEPS-based Payment System:** Responsible for the design and backend development of an AEPS (Aadhaar Enabled Payment System) based product, which involved computation of the transaction flow for a multilevel hierarchy
  - **API-Hub:** 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.

## PROJECTS

- **Virtual Lab Assistant (Capstone project sponsored by Persistent Systems):** December 2019
  - Built a centralized Virtual Lab Assistant which reduces the manual interventions of a computer lab assistant by automating the workflow
  - The application is built using Python, Slack-API endpoints, and some NLP techniques and deployed using Docker containers and Redhat Ansible
- **File System Emulator (UNIX System Internals using C):** November 2021
  - Implementation of the UNIX/Linux file subsystem using C
  - It provides all the commands and system call implementation through a customized shell and comprises of all the necessary data structures of the file system like inode, file table, etc.

## OTHER ACTIVITIES

- **3rd place in 2023 Spring International Contest** held by **IEEE Reliability Society**, Dallas chapter
- **Trained and mentored 8 new undergraduates** and assisted them during technical doubts/error solving sessions
- **Winner of Tech-Rex Quiz** organized under **CSI** (Computer Society of India)

## CERTIFICATIONS

- **Algorithms Specialization** Coursera  
*Stanford Online* *April 2020 - Aug 2020*