

# Vedang Wartikar

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## EDUCATION

### UNIVERSITY OF TEXAS AT DALLAS

MASTER OF SCIENCE (MS) -  
COMPUTER SCIENCE

Fall 2022 | Richardson, TX

Incoming Student at the Erik Jonsson  
School of Engineering & Computer  
Science

### SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)

BE IN COMPUTER ENGINEERING

2016 - 2020 | Pune, India

First Class with Distinction

GPA: 8.76 / 10.0

Final Year GPA: 9.59 / 10.0

## LINKS

Website:// [www.vedang.dev](https://www.vedang.dev)

Github:// [github.vedang.dev](https://github.vedang.dev)

LinkedIn:// [linkedin.vedang.dev](https://linkedin.vedang.dev)

LeetCode:// [vedangwartikar](https://vedangwartikar)

HackerRank:// [vedangwartikar17](https://vedangwartikar17)

## PROGRAMMING SKILLS

Proficient:

Python • Docker • UNIX/Linux • ML/AI

• C/C++ • Git • MySQL • PostgreSQL

Expert:

R • Shell Scripting • MongoDB • Java

• JavaScript • Drupal • HTML/CSS

Familiar:

Tensorflow • ReactJS • Ansible • RegEx

## ACHIEVEMENTS

- Received a **Bravo Award** at Persistent for developing a tool that substantially reduced the team's manual efforts
- **Winner of Tech-Rex Quiz** organized under CSI (Computer Society of India)
- **Top 5% (out of 500K people)** in GIT Assessment (LinkedIn)
- **HackerRank: 5 Stars (Gold Badge)** in Problem Solving and Python

## CERTIFICATIONS

Algorithms Specialization

**STANFORD ONLINE | COURSERA**

(Issued April 2020)

## EXPERIENCE

### PERSISTENT | SOFTWARE ENGINEER

November 2020 - July 2020 | Pune, India

- Working on a MVP that acts as a management and analytics dashboard for open-source packages available on IBM's ppc64le architecture. Building it using Python, FastAPI, Uvicorn webserver, Elasticsearch and ReactJS for UI
- Built BulkSearch tool which validates the currency of OSS packages on IBM's POWER8 machines and is configured to install/build/test packages from a variety of languages, and has reduced the team's manual effort by over 80%
- Reviewing code and publishing build scripts for RHEL-based OS and Red Hat UBI containers for OSS packages to run smoothly on IBM's POWER8 platform

### SIRPI | DATA SCIENCE INTERN

August 2020 - November 2020 | Bangalore, India

- Responsible for the development of Wind Shear Application, built using R, Shiny Framework and AWS Stack, which uses machine learning techniques to predict windspeeds at target heights and is being used by Wind Engineers
- 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
- Engaged in client communication, presentations and setting up tasks internally for efficient workflow

### RHYTHMFLows | SOFTWARE ENGINEERING INTERN

May 2020 - August 2020 | Pune, India

- Mentored and lead a small team of 4 for an Analytics product developed in-house using R for bank reconciliation
- Implemented a generic library to check reconciliation status for large scale transactions of different business entities using Python, Django, ORM based SQLAlchemy. It helps in analyzing patterns for fraudulent transactions
- Worked on an API-Hub which provides uniform and secured handling of API push/pull requests from multiple banking entities

### PERSISTENT | PROJECT INTERN

June 2019 - June 2020 | Pune, India

- Built a centralized **Virtual Lab Assistant**  which reduces the manual interventions of a computer lab assistant by automating the workflow

## PROJECTS

### FILE SYSTEM EMULATOR

UNIX system internals using C

The FSE provides all the necessary UNIX file subsystem functionalities like bash commands and system call implementations through a customized shell

### PROCESS MONITORING TOOL

Windows system internals using C++

ProcMon provides a detailed log of all the .exe files on a Windows machine and can be used to list memory/thread/system info or kill a specific process

### CANCER PREDICTION - CUSTOM KNN MODEL

Machine Learning using Python

A custom-built K Nearest Neighbor (KNN) Model that predicts whether the tumor is benign or malignant from UCI's Wisconsin Diagnostic Dataset