

# Vedang Wartikar

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## EDUCATION

### PUNE UNIVERSITY (SPPU)

Marathwada Mitramandal's  
College of Engineering

### BE IN COMPUTER ENGINEERING

November 2020 | Pune, India

First Class with Distinction

GPA: 8.76 / 10.0

Final Year GPA: 9.59 / 10.0

## LINKS

Website:// [vedang.dev](#)

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

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

LeetCode:// [vedangwartikar](#)

HackerRank:// [vedangwartikar17](#)

## SKILLS

### PROGRAMMING

Proficient:

Python • ML/AI • C/C++ • Git • MySQL

Expert:

R • UNIX/Linux • Java • JavaScript •

Docker • HTML/CSS

Familiar:

Tensorflow • ReactJS • Ansible • RegEx

## ACHIEVEMENTS

- Received a **Bravo Award** 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)

- LeetCode:** Solved over 250+ Problems

- HackerRank:** 5 Stars (Gold Badge) in Problem Solving and Python

## PUBLICATIONS

[1] P. Mehta, V. Wartikar, R. Shitole, and I. Shaikh. Automation of multiple pcs using nlp and slack api. *International Journal of Emerging Technologies and Innovative Research*, November 2021.

[2] S. Tahasildar, M. Phatak, S. Patil, and V. Wartikar. Face recognition system for surveillance. *International Journal of Emerging Technologies and Innovative Research*, April 2019.

## EXPERIENCE

### PERSISTENT | SOFTWARE ENGINEER

November 2020 – Present | Pune, India

- Developing a tool in Python to validate the currency of open-source packages on IBM's Power8 machines. The main motive is to introduce a parity between Intel's x86 and IBM's ppc64le architectures
- The tool uses detached docker containers to automate the process of installing/building/testing open-source packages from a variety of languages and frameworks and has reduced the team's manual effort by over 80%

### 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, which is 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

### PERSISTENT | PROJECT INTERN

June 2019 – June 2020 | Pune, India

- Built a centralized **Virtual Lab Assistant** [↗](#) which reduces the manual efforts of a computer lab assistant by automating the workflow

## PROJECTS

### VIRTUAL FILE SYSTEM [↗](#)

#### UNIX SYSTEM INTERNALS USING C

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

### DRONE SURVEILLANCE SYSTEM [↗](#)

#### Object detection using Deep Learning

The DSS can detect the presence of crowd from the proximity of pedestrians using trained Keras RetinaNet ML model

### PROCESS MONITORING TOOL [↗](#)

#### WINDOWS SYSTEM INTERNALS USING C++

ProcMon provides 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

### BANK MANAGEMENT SYSTEM [↗](#)

#### DESKTOP APPLICATION USING JAVA

The BMS provides necessary features for accessing and modifying user accounts. It maintains user transactions like transfer, withdrawal and deposit