

Vedang Wartikar

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EDUCATION

THE UNIVERSITY OF TEXAS AT DALLAS

MASTER OF SCIENCE (MS) -
COMPUTER SCIENCE

Specialization: **Intelligent Systems**

Fall 2022 - Spring 2024

Student at the Erik Jonsson School of
Engineering & Computer Science

Courses: Operating Systems, Design and
Analysis of Algorithms, Machine Learning

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

LINKS

Website:// www.vedang.dev

Github:// github.vedang.dev

LinkedIn:// linkedin.vedang.dev

LeetCode:// vedangwartikar

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)
- **Mentored and trained new joiners** and assisted them in technical doubts/errors

CERTIFICATIONS

Algorithms Specialization

STANFORD ONLINE | COURSERA

(Issued April 2020)

EXPERIENCE

PERSISTENT SYSTEMS | SOFTWARE ENGINEER

November 2020 - July 2022 | Pune, India

- Worked on an MVP that acts as a management and analytics dashboard for open-source packages available on IBM's ppc64le architecture. Developed it using FastAPIs, 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 sets of packages which reduced team's workload by over **80%**
- Optimized the BulkSearch tool by **60%** by automating the handling of massive CSV/Excel-based data and adding support for **15+** languages and frameworks
- 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 | DATA SCIENTIST INTERN

August 2020 - November 2020 | Bangalore, India

- 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
- 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
- Solved **20+** open internal ReprExes which are integrated with statistical models


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 **100,000+** 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 secured handling of API push/pull requests from **5+** different data formats like JSON, XML, etc.

PERSISTENT SYSTEMS | 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

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

SORTING VISUALIZER

Visualization using ReactJS

Explores different sorting techniques like Insertion Sort, Merge Sort, etc