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 Science 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

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 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 worklow

PROJECTS

DRONE SURVEILLANCE SYSTEM ⤢

Object detection using Deep Learning

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

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

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