VINDHYA RAVI PRAKASH

SOFTWARE ENGINEER

CONTACT

vindhyaraviprakash@gmail.com
(408) 704 - 0713
New York, NY
Personal Website
linkedin.com/vindhyaraviprakash
github.com/Vindhya7

EDUCATION

M.S. in Computer Science

[GPA: 3.77]
Syracuse University
[Syracuse, NY]
Aug 2019 – May 2021

B.E in Information Science and Engineering

Visvesvaraya Technological University, B.N.M.I.T
[Bangalore, IN]
Aug 2013 – June 2017

TECHNICAL SKILLS

Programming Languages
Python, JavaScript, Java, C, C++, Go

Web Technologies
React.js, React Native, Node.js, Express, ES6, WebPack, Babel, Django, HTML, CSS, PHP, Apache Tomcat

Database
MySQL, PostgreSQL, InfluxDB, MongoDB

Machine Learning
Regression, Classification, NLP, Clustering

Tools & Platforms
Git, GitHub, Unix, Android, Unity, Grafana, Highcharts, Heroku

Software Development
Data Structures, Unit Testing, Object Oriented Design, Agile, Full Stack

EXPERIENCE

Software Engineer *@Hewlett Packard Enterprise, New York, NY* **June '21 – Present**

- Responsible for the **maintenance and release of 5 HPE supercomputer systems** in the High Performance Computing department, with a current focus on improving development velocity, reducing build times and reducing deployment times through end to end automation processes using Jenkins.
- Performing code reviews, root cause analysis for critical issues, implementing, testing, and reviewing solutions to **support 50+ customers using the HPE supercomputer systems**.

Software Engineer Intern *@Hewlett Packard Enterprise, Syracuse, NY* **May – Aug '20**

Agnostic Data-Driven Decision Making Tool

- Built a full stack web application for the Enterprise Analytics Platform at HPE that helps employees **evaluate and determine the appropriate data visualization tool** most suited for their project specifications.
- Engineered a framework using **React, Django and Postgres** which makes the application agnostic and be **refactored to other product use cases** such as ML algorithms, databases, etc.

Volunteer Research Assistant, ML *@Syracuse University, Syracuse, NY* **Aug '20 – May '21**

- Assisted Dr. Soundarajan with a **new data imputation technique that uses active learning** to fill missing values in datasets, thus improving accuracy and reducing bias of the trained model.
- Implemented the algorithm using **Lasso Regression** to identify crucial features and **KNN imputer**, variance & accuracy to score the missing instances in those features. Obtained an **MSE of 5.46**.

Research Engineer *@Indian Institute of Science (IISc), Bangalore, IN* **Sept '17 – Jan '19**

Smart LabCare System

- Designed a system to conveniently **monitor temperature, pressure and humidity** in labs and servers at IISc using IoT sensors and **visualized real time data on a web app using InfluxDB and Grafana.** Helped ensure the maintenance of optimal lab conditions which preserves flammable materials and delicate equipment.
- Re-designed the Integrated Circuit Packaging Lab website, using JavaScript and Bootstrap to insert animations and make it responsive & mobile friendly which **increased web traffic by 20%**.

PROJECTS

Alphabite - Nutrition tracking and grocery replenishment app **Aug – Dec '20**

- Developed a cross-platform application using **React Native** that enables users to **enhance personal care by tracking groceries, analyzing nutritional intake, and exploring healthy recipes**.
- **Nutrition**: Designed and implemented a database in **Firebase** that store users' daily nutritional information to help users analyze and set diet goals.
- **Inventory**: Leveraged the **Image Recognition feature from Google Cloud's Vision API** to detect and **classify food with 90% accuracy**, resulting in a significant UX improvement.
- **Recipes**: Integrated Spoonacular's API that utilizes an **Ingredients-to-Recipe Matching algorithm** to recommend healthy recipes based on the inventory captured.

TextTrim - Summarizer for meetings and articles **Mar – May '21**

- Collaborated to develop a full stack web application that **summarizes text or files** using 9 summarization techniques (both abstractive & extractive) and **evaluates the summary based on 4 different metrics**. Delivered an **average summary score of 0.7** across all techniques.
- Created an efficient and scalable multithreaded backend/pipeline using **Django** to handle requests, validate & store user input, and clean up user sessions.
- Designed a frontend UI using **React** that provides options to select a specific summarization algorithm and displays the summary with its evaluation. This was beneficial to document various online sessions held during conferences at Syracuse University.