# VINDHYA RAVI PRAKASH

SOFTWARE ENGINEER

## CONTACT

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## 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, Go, Java, C, C++

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

**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 Apollo 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 root cause analysis for critical issues, debugging, implementing, testing, and reviewing solutions to **support 50+ customers using the HPE Apollo 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 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.