VINDHYA RAVI PRAKASH

SOFTWARE ENGINEER

CONTACT

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EDUCATION

M.S. in Computer Science [GPA: 3.77]

Syracuse University (SU) [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 LanguagesPython, TypeScript, Java, C, Go

Web Technologies React, React Native, Node.js, Express, ES6, WebPack, Babel,

Django, HTML, CSS, PHP, Apache Tomcat

Database

MySQL, PostgreSQL, InfluxDB, MongoDB (noSQL), GraphQL

Tools & Platforms

Git, GitHub, Android, Linux, AWS, Docker, Jenkins, Grafana, Heroku

Software Development

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

Machine Learning

Regression, Classification, NLP, Clustering

EXPERIENCE

Software Engineer @Hewlett Packard Enterprise, New York, NY

Jun '21 - Apr '23

- 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**.

Full Stack Engineer Intern @Hewlett Packard Enterprise, New York, NY

May '20 - Aug'20

 Developed a web app for HPE's Analytics Tool Repository using React, Django, and PostgreSQL, enabling developers to compare data visualization tools, with potential extension to other managed services like databases and ML algorithms.

Volunteer Research Assistant, ML @Syracuse University, Syracuse, NY

Aug '20 - May '2

- 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

• Developed an **IoT** system for monitoring lab conditions at **IISc** with real-time data visualization, and redesigned the Integrated Circuit Packaging Lab website, increasing traffic by 20%.

PROJECTS

DishInsight - Menu analysis, dish reviews, and dietary guidance app

Oct '24 - Dec '24

Sept '17 - Jan '19

- Created (and deployed) a cross-platform app where users can take photos of a restaurant menu and get insights into specific dishes based on online reviews.
- Used OpenAl's GPT-4 for **advanced menu analysis**, offering in-depth insights into ingredients, dietary classifications, and taste profiles through effective prompt engineering.
- Leveraged Retrieval-Augmented Generation (RAG) with PerplexityAl for **real-time**, **context-aware dish reviews** using cutting-edge LLM, fine-tuning prompts for accuracy & relevance.

Alphabite - Nutrition tracking and grocery replenishment app

Aug – Dec '20

- Developed a full stack cross-platform app 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.