

Vasundhara Kulkarni

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EDUCATION

University of Michigan

B.S.E Computer Science

Ann Arbor, Michigan

April 2024

- MHackers, Michigan Mars Rover Team, Girls in Electrical Engineering & Computer Science
- Relevant Courses: Data Structures & Algorithms, Computer Architecture, Foundations of Computer Science

WORK EXPERIENCE

IBM

Accelerate Participant

New York

June 2022 - August 2022

- Participated in an 8-week program focused on logic design, Client-Side vs Server Side, CloudNative Development, and Cybersecurity
- Attended weekly sessions with IBM professionals to receive an IBM credential badge, presented a final paper, and developed a website describing current hardware, software applications and quantum computing

Morgan Stanley

FinTech Focus Intern

New York City

July 2021 - August 2021

- Developed and presented a website with over 2000 page visits informing basic financial literacy to top-tier financial institutions (Bank of America, Goldman Sachs, JPMorgan Chase, Morgan Stanley, and Wells Fargo) to display the correlation between the FinTech sector and computer science
- Built full-stack web applications using the Flask web framework, MongoDB, Python, HTML, and CSS
- Developed and iterated upon prototypes and Minimum Viable Products (MVPs), which culminated in a NodeJS application to compile and calculate statistics about basic stock market trends for beginners

Edison Environmental Commission Council

Lead Student Developer

New Jersey

November 2019 - June 2021

- Utilized python to develop back-end structure of an application that records energy gathered from local solar panels from high school to calculate energy retainment efficiency of the panels
- Implemented RESTful APIs in Django, which enabled the analytics team to increase reported speed by 27%
- Developed a predictive model with Python, TensorFlow and Tableau to predict number of future defects in JIRA backlog and estimate burndown rates for an internal application; attained ~70% accuracy

PROJECTS

SillyQL (SQL) Linux Database

August 2022 - September 2022

C++, Bash

- Built SQL simulator to emulate a relational database that supports efficient create, select, print, insert, delete, and join operations using red-black trees and binary search trees for rapid indexing and joining of queries

FinExplore

Python, JavaScript

July 2021 - August 2021

- Developed a financial informational full-stack web application with 2000+ page visits for teenagers by using Flask framework serving a REST API with React as the frontend
- Embedded user login data systems with use of document-oriented database program, and financial calculators
- Created a stock market screener and wrote a script that emails users list of stocks with positive EPS estimates

LEADERSHIP EXPERIENCE

Girl Scout Ambassador

Gold Award Recipient (Earned by only 5% of Girl Scouts)

New Jersey

December 2020 - September 2021

- Developed a website with over 5000 page visits informing communities regarding the importance of sustainability and dedicated 300 hours in establishing composting programs in underdeveloped schools.

SKILLS & INTERESTS

Skills: C++, Python, C, C#, MATLAB, JavaScript, HTML, CSS, Flask, MongoDB, JAVA, R, Swift, Microsoft Technologies, Rest APIs, SQL, AngularJS, Go, Git, React, AWS, Kubernetes, AGILE, TypeScript, TensorFlow