

Vaishnavi Parankusham

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Education

University of Michigan - Ann Arbor

Sept. 2017 - May 2021

BS Computer Science (Major) and Gender & Health (Minor)

Relevant Coursework: Data Structures and Algorithms, Web Systems, Computer Security, Software Engineering, Computer Organization, Discrete Mathematics, Foundations of Computer Science, Programming and Data Structures

Experience

MPowered Entrepreneurship, Consultant

Sept. 2018 - Current

- Worked on cloud infrastructure consulting project using AWS for a startup based in San Francisco by building a microservice with multiple Python API endpoints to process and deliver large data sets from a DynamoDB database
- Thoroughly documented and analyzed written code and the different APIs used to ease handoff between consulting team and startup

Mercedes-Benz Financial Services, IT Intern

May 2019 - Aug. 2019

- Designed and delivered fully functional online dashboard to aid with loan subsidization and lease management, using Photoshop to create a demo, implementing with AngularJS, Java, and SQL
- Utilized agile framework and scrum methodology to plan projects and deliverables with the marketing team and lease management IT team to increase daily business efficiency by 40%

Undergraduate Research Program (UROP), Research Assistant - Designing an IoT Curriculum

Sept. 2018 - May 2019

- Used Arduino microcontroller to implement prototype for smart bike lock controlled by an RFID tag to minimize the necessity for metal keys by 35% throughout University of Michigan- Ann Arbor campus
- Surveyed students and created future plans for device using data to improve the bike lock to increase efficiency

Leadership

Girls Teaching Girls to Code (GTC), Events Lead

Sept. 2019 - Current

- Mentored and taught high school girls through coding lessons, projects, seminars, and company tours
- Organized interactive events such as code camps and workshops to promote women in STEM

Projects

weCare for MBFS

May 2019 - Aug. 2019

- Collaborated with fellow interns at Mercedes-Benz Financial Services to create a B2E iOS app to simplify internal communication and allow employees to search for other employees by skill and book a meeting with them
- Designed UI/UX with Photoshop and developed front-end, back-end, and web services using Swift, Java, and SQL

REST API

June 2019

- Built a small web server for an office hours queue by reading HTTP requests and delivering responses to client
- Serialized and deserialized JSON data and modified a linked list to create an appropriate response for every request

Machine Learning

Dec. 2018

- Used Natural Language Processing to predict student post categories by training and testing previously collected data
- Based heavily on recursion, binary search trees, templating, and map data structures

Mario Run on Arduino

April 2018

- Set up Arduino microcontroller with a breadboard, potentiometer, and button to control user input and an LED board to display the output
- Developed and showcased a Mario Run themed video game with multiple levels and obstacles

Skills

C++, C, Python, HTML5/CSS3, Java, JavaScript, Swift, SQL, Flask, AngularJS, Node.js, React, Arduino, Photoshop