Vaishnavi Vinodhkanna

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EDUCATION

Cornell University, Ithaca, NY	**JP Stevens High School, Edison, NJ**
B.S. in Computer Science	Graduation Date: June 2020
Graduation Date: Dec 2023	GPA: 5.2
GPA: 3.8	

WORK EXPERIENCE

Software Engineering Intern, *Microsoft Corporation,* Redmond, Washington | *C#, KnockoutJS, HTML, CSS*

June 2023-August 2023

- ❖ Delivered a **Full-Stack** feature that enables Entra ID customers to preview branding configurations changes prior to it going live to optimize the authentication UX customization process for over **10,000** enterprise customers.
- ❖ Utilized **C#** for the **Server-side** of the **Microsoft Entra ID(Azure Active Directory)** admin portal **API endpoint** as well as **KnockoutJS** to develop an accessible and compliant **UI/UX.**
- ❖ Utilized **defensive programming** and **web application security** principles to ensure that the **API endpoint** was secure**.**
- ❖ Ensured feature performance of **< 1 second,** enabling near-instant ability to visually validate custom company branding in the authentication UX.

Software Engineering Intern, *Microsoft Corporation,* Redmond, Washington | *C#, Azure Kusto, CosmosDB*

June 2022-August 2022

- ❖ Delivered a **Backend** job that autoscaled **CosmosDB** throughput provisioning for the **Microsoft Accounts(MSA)** team in the **Identity and Network Access(IDNA)** division
- ❖ Ensured reduction of unnecessary throughput upscaling as well as downscaled throughput, thereby reducing **cost of goods sold(COGS)** by **~50%.**
- ❖ Developed and presented a design document to senior software engineers that detailed both the high level solution as well as implementation specifics.

TEACHING EXPERIENCE

Undergraduate TA: CS 1300: Introductory Design and Programming for the Web | *HTML, CSS*

August 2023-December 2023

- ❖ Held weekly office hours to answer students' questions regarding course material both in person and on an online question-answer forum
- ❖ Led weekly discussion sections and grade assignments for ~30 students and helped them solidify their understanding in course material.

Undergraduate TA: CS 1133: Introduction to Python | *Python*

January 2022-May 2022

- ❖ Answered student questions during lecture, held weekly office hours to answer students' questions regarding course material, and answered student questions on an online question-answer forum
- ❖ Graded over 30 student projects, providing detailed feedback and appropriate course of action to improve in subsequent assignments.

PROJECTS

Flavors of India: Search Engine | *Python, HTML, CSS*

March 2023-May 2023

- ❖ Developed a search engine that will provide personalized Indian dish recommendations to the user given ingredients, cook time, dietary restrictions, and any other keywords.
- ❖ Worked in a team of 4 over the course of a semester to develop this search engine using IR concepts such as Jaccard similarity, Cosine Similarity, and Rocchio's method.

Instant Messaging System | *Ocaml,Python*

August 2021-December 2021

- ❖ Developed a basic terminal-based Instant Messaging System using Ocaml and Python using basic knowledge of socket programming.
- ❖ Worked in a team of 4 over the course of a semester to develop a functioning instant messaging system, implementing functionalities to log in, create chat, and send/receive messages.
- ❖ Created an extensive OUnit test suite in order to perform unit testing on our overall application.

Froggit: An Adaptation of Crossy Road | *Python*

Fall 2020

- ❖ Used knowledge of model-view-controller to develop a fully functioning adaptation of this popular game.
- ❖ Utilized basic knowledge of GUIs and animation via use of coroutines using the Game2d package, which provides functionality for a simple animated game.

RELEVANT COURSEWORK

Intro to Computing with *Python,* OOP and Data Structures in *Java,* Functional Programming *Ocaml,* Discrete Structures, Analysis of Algorithms and Data Structures, Introduction to Machine Learning, Statistics and Probability, Language and Information(IR), Intro/Intermediate Design and Programming for the Web, Database System