Harsh Thakkar

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EDUCATION

UNIVERSITY OF WISCONSIN - MADISON, Madison, WI   *August 2020 – May 2024*

Bachelor of Science in Computer Science and Data Science,   *Cumulative GPA: 3.94/4.0*
Certificate in Entrepreneurship

INTERNSHIPS/ PROFESSIONAL EXPERIENCES

CAPITAL ONE
Software Engineer Intern   *June 2023 – August 2023*

- I worked as a part of an internal technology team to replace a dependency within a state management application. Through this experience, I was able to understand the inner workings of a state management tool using NestJS while familiarizing myself with Typescript. During this internship, I worked on skills like Agile SCRUM, Typescript, NestJS, DynamoDB, Jenkins, and GitHub.

OPTUM - UNITEDHEALTH GROUP
Software Engineer Intern   *June 2022 – August 2022*

- Worked as a part of OptumRx to integrate a new pharmacy locator component within the Advocate Central application. Through this experience, I was able to help create a REST API endpoint using Spring Boot to authenticate users before they used our pharmacy locator functionality as a part of the single sign-on functionality. I was also able to get introduced/work on skills like Agile SCRUM, React, Java Spring Boot, and Redis.

THEBULLETIN.IO
Full Stack Developer Intern   *March 2022 – July 2022*

- I worked as a part of a fast-paced and rigorous startup environment. Mainly worked on designing tools to assist in data scraping/analysis. I gained experience working with REST APIs to pull information for my analysis work. Also, I worked with various back-end cloud-based services like Google Cloud Storage and Firebase. Ultimately, I helped in creating a program to further automate the lead generation process and saved the company countless hours of manual labor.

CLAIRVISTA
Test Automation Intern   *June 2021 – August 2021*

- As a part of the Software Engineering team, I took the lead in automating all the mobile integration tests needed for the company's applications. To accomplish this, I used Appium, Selenium, and TestNG in a Java environment. Ultimately, these efforts were able to save the company hundreds of hours in manual testing time.

NORTHWESTERN UNIVERSITY
Research Intern   *June 2019 – August 2019*

- Under Dr. Luis Amaral, I worked with my mentor, Jonas Hartman, to create a Python application called pyCFI (Python-based Cellular Force Interface) to infer cell interfacial tensions from segmented 3D image stacks. I used various libraries like Pandas and NumPy to aid in the data processing.

BADGER CONSULTING
Project Manager   *September 2020 – May 2023*

- Each semester, I manage an advisory team of 8-10 analysts that provides consultation to various clients ranging from brick-and-mortar stores to cutting-edge technology startups. I facilitate all communications with the client while ensuring that analyst research is aligned with the client's vision for the project. I also lead the effort to craft a final deliverable for the client.

PROJECTS

PERSONAL PORFOLIO WEBSITE   **Tech***: Apache, DNS, HTML, CSS, JavaScript, Raspberry Pi*
To start, I set up an Apache HTTP Server on my Raspberry Pi and used template website code to put together the site. I then went on to port forward my Wi-Fi router so that it would route connections over to the Raspberry Pi. To route connections to my home Wi-Fi network, I set up name servers through a free DNS service from GitHub.

OFFICE HOURS WAITLIST   **Tech***: React, Java Spring Boot, Node, XAMPP, MySQL*
This is an application to help maintain a queue for an office hour setting. I worked alongside two of my classmates to develop this full stack application using React alongside with Node to create the frontend and Java Spring Boot for the backend. This also worked with a local database instance created through XAMPP and utilizing MySQL.

LEADERSHIP EXPERIENCE

Surma

Captain, Executive Board Member   *May 2023 – May 2024*
- Lead and organize the Bollywood fusion dance team in preparing for 2023-2024 competition season.

SKILLS

Java, JavaScript, Python, React, Agile SCRUM, REST API, Java Spring Boot, Redis, Google Cloud, Selenium, Typescript, NestJS, DynamoDB, Jenkins, and GitHub