Mihir Trivedi

U.S. Citizen | (608) 572-9286 | mihirtrivedi45@gmail.com | linkedin.com/in/m-trivedi | github.com/m-trivedi

Education

University of Wisconsin - Madison　　　　　　　　　　　　　　　　　　　　　　**Sep 2021 - May 2025**
Bachelor of Science in Computer Science (Dean's List x2)

Technical Skills

Languages: PHP, Python, Java, C/C++, R, HTML/CSS, JavaScript, SQL
Technologies: Git, Docker, Hadoop, Linux, AWS, GCP, MySQL, Spark, Kafka, Cassandra, BigQuery, Jira
Libraries/Frameworks: Laravel, Flask, Pytorch, NumPy, Pandas, Matplotlib, Tkinter, PyQt5, JUnit
Coursework: Data Structures & Algorithms, Big Data Systems, Artificial Intelligence, Database Management, Data Science Programming, Applied Statistics, Operating Systems, Discrete Mathematics, Machine Organization

Experience

Pantry2Home - Full-Stack Developer (Part Time)　　　　　　　　　　　　　　　**Mar 2023 – Present**

- Developed the Pantry2Home platform (pantry2home.com) independently to support food-insecure communities in ordering food items for pickup/delivery from local Wisconsin food pantries, including St. Vincent De Paul Food Pantry, fostering greater accessibility to essential resources.
- Engineered an object-oriented PHP and JavaScript backend integrated with a MySQL database, adeptly incorporating the MVC (Model-View-Controller) design pattern, to implement functionalities such as user account management, order processing, order tracking, and comprehensive pantry inventory management encompassing diverse food categories. Utilized Git and Webhooks for meticulous version control.
- Designed SEO-optimized HTML/CSS layouts, elevating search engine rankings and user experience. Employed responsive JavaScript techniques to ensure cross-compatibility across various devices, enhancing overall accessibility.
- Collaborated closely with co-founders to brainstorm and conceptualize innovative website features, providing regular bi-weekly progress updates on their implementation. ([view recommendations](#))
- Efficiently managed and processed data and orders, consistently serving the needs of a user base exceeding **500** on a weekly basis, with a cumulative impact extending to over **3,000** individuals throughout the project's duration.

Projects

Remote Procedural Calls ([link](#)) | *C, Git*　　　　　　　　　　　　　　　　　**May 2023**

- Developed a remote procedural call system in C, facilitating the tracking of **100+** connected clients by a remote server.
- Employed multi-threading (pthreads) to enable concurrent servicing of multiple client requests, enhancing system efficiency and responsiveness by **400%**.
- Designed a fault-tolerant architecture to ensure system reliability in the event of client disconnects or disruptions.
- Conducted thorough testing, including stress testing and performance optimization, to deliver a stable system

Radized: Radiology Digitized | *PHP, JavaScript, HTML/CSS, R, MySQL, AWS, Git*　　　　**Jan 2022**

- Developed a PHP website with SQL DB that helps radiologists collaborate with diagnostic centers to provide interpretations of CT/MRI Scans, and X-Rays to patients online.
- Implemented user login/register, scan upload/download, commenting functionality with object-oriented PHP.
- Used R programming language to provide concise visual representations of statistics.
- Reduced time to provide diagnosis by **80%** by optimizing and streamlining scan assignment to doctors.
- Managed the elastic cloud compute instances of the website on Amazon Web Services.

Flora Counselling Services ([link](#)) | *Python, PyQT5, MySQL, CSS*　　　　　　　　**Apr 2020**

- Created a Python application with SQL database to make counselling services more accessible for over **2000** students.
- Utilized PyQT5, matplotlib to create a GUI that supports actions such as creating an account, editing profile, managing counsellors, scheduling appointments, and viewing usage statistics.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

Leadership & Activities

- Participated in the Google Solutions Challenge (2022) to develop a progressive web app using React and Firebase in a team of four people to help reduce food wastage in developed countries. ([link](#))
- Taught computer science skills at Thoreau Elementary under Prof. Andrea Arpaci-Dusseau. ([link](#))
- Volunteered as technical skills educator at Porchlight's emergency shelter for 1 month over Summer 2022.