Mihir Trivedi

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Education

University of Wisconsin - Madison · **Sep 2021 - May 2025**

Bachelor of Science in Computer Science, GPA: 3.62/4.0, Dean's List x4

Coursework: Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Networks, Big Data Systems, Artificial Intelligence, Human Computer Interaction, User Interfaces, Calculus, Programming 1, 2 & 3

Technical Skills

Languages: Python, Swift, JavaScript, TypeScript, PHP, Java, C, C++, R, SQL
Technologies: Git, Docker, AWS (EC2, Lambda, SQS, SES, DynamoDB), GCP, Spark, Cassandra, Kafka, BigQuery, Jira
Libraries/Frameworks: React, React Native, Laravel, Vue, Tailwind, Flask, Scikit-Learn, Pytorch, Pandas, JUnit

Experience

Capital One · **Sep 2024 – Dec 2024**
Software Engineer - Capstone · Madison, WI

- Designed and implemented a fraud detection system on **AWS**, utilizing **SQS** to queue credit card transactions, **Lambda** functions to apply **isolation-forest** model stored in **S3** for fraud detection, and **SES** to notify users via email.
- Deployed a **React-Vite** frontend using **AWS Amplify**, leveraging **GraphQL** to input account/transaction data into **DynamoDB**. Enabled users to sign in and confirm/deny fraudulent activity to help label data and retrain models.
- Worked under guidance of **Capital One** software engineers as part of the UW-Madison CS capstone course.

Singlewire Software · **May 2024 – Aug 2024**
Software Engineer Intern · Madison, WI

- Developed a chrome extension using **JavaScript (Vue)** that prints visitor badges automatically by binding to public channels and listening to broadcasted visitor check-in events. Set up auth flow via API calls to web server.
- Refactored large data tables to display information regarding visitors, students, emergencies, locations, and activity logs in **Laravel** in real time using advanced **eloquent ORM** queries. Improved filtering, sorting, pagination performance.
- Enhanced import/export functionalities and permission-based CRUD operations using **RESTful APIs.**
- Worked closely with PMs, software engineers, and QA to plan and implement features in **Agile** bi-weekly sprints.

Pantry2Home · **Mar 2023 – May 2024**
Software Engineer (Part-Time) · Madison, WI

- Developed pantry2home.com, a server-side web application independently to support **over 2,500** food-insecure families in placing **over 5,000** pickup/delivery orders containing **over 100,000** food items from different food pantries.
- Engineered an **MVC**-based **PHP** backend with **SQL** database and **HTML** frontend to enable user account management, order tracking, and pantry inventory management for diverse food categories. Utilized **Git** for version control.

Projects

Wealth Roadmap iOS Application | *Swift, SwiftUI, SwiftData, Firebase, Git* · **Sep 2024**

- Developed an iOS application in **Swift** using the **MVVM** design pattern to provide a comprehensive set of financial tools that help users plan and grow their wealth by analyzing assets, liabilities, and cashflow for financial projections.
- Leveraged **Firebase Firestore** for remote data storage, enabling seamless access to financial data across multiple devices.

Advertisement Click-Through Rate Prediction Model | *Python, Pandas, Scikit-Learn* · **Apr 2024**

- Developed **Python** model that predicts with **over 90%** accuracy if a user would click on an advertisement by considering different features across multiple datasets. Utilized techniques such as logistic regression, scaling, and one-hot encoding.

Remote Procedural Calls | *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** to service multiple client requests concurrently, enhancing system efficiency by **400%**.

Google Solutions Food Distribution Project | *React, Firebase* · **Mar 2022**

- 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 by creating a food distribution platform.