Pari Shah

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EDUCATION

University of Michigan, Ann Arbor, MI   *Aug 2020 - Dec 2023*
Bachelor of Science in Computer Science & Cognitive Science   GPA: 3.5/4.0
Relevant Coursework: Data Structures and Algorithms, Applied Linear Algebra, Statistics and Data Analysis, Discrete Math, Foundations of Computer Science, Computer Organization, Web Systems, User Interface Development, Database Management Systems, Introduction to Machine Learning

SKILLS AND TECHNICAL TOOLS

Languages/Frameworks: C++, Python, HTML, CSS, ReactJS, TypeScript, Django, R, Bazel, Redux, MongoDB, SQL/SQLite
Platforms: Github, Visual Studio Code, Xcode, Jupyter Notebook, Figma, Jira

WORK EXPERIENCE

Software Engineering Intern | MongoDB   *June 2023 - Aug 2023*
- Refactored and modularized **Redux** functionality by app in the cloud frontend platform, resulting in space improvements by up to 5% in gzip file sizes
- Enforced explicit dependencies of the modularized **Redux** apps with **Bazel**, reducing build times for the **Redux** package by up to 59%
- Implemented dark mode functionality for 272 brand-related icons by creating a brand-icon component in **Typescript** that seamlessly switches between light and dark mode based on the user's preference
- Managed version control and project progression with **Git** and **Jira**

Software Engineering & Application Development Intern | Healthfirst   *June 2022 - Aug 2022*
- Developed a full-stack web application for a cohort builder visualization tool in **React JS, TypeScript,** and **Django** to reduce the time it takes for clinicians to execute ad-hoc queries for patients with specific characteristics by 50%
- Trained a logistic regression model on 10,000 patients with **Pandas**, **Scikit-learn**, and **Seaborn** to predict whether a patient is at risk of homelessness based on the patient's health background with 94% accuracy
- Created a full-stack machine learning web application in **React JS, TypeScript**, and **Django** for healthcare providers to give on-demand recommendations to patients based on trained model
- Worked in an **Agile** environment and utilized **Git** for version control in a team of five members

RESEARCH

Researcher | National Science Foundation   *June 2021 - July 2021*
- Designed a reliable cloud robotics system using **Python WebSockets** and **OpenCV** to understand how to use cloud-based operations for conducting remote experiments and controlling testbeds
- Setup 2 remotely controlled robots that performed operations in tandem through remote commands and programs

Mentee | Google Computer Science Research Mentorship Program (CSRMP)   *Feb 2021 - March 2021*
- Engaged in weekly meetings with a Google mentor to gain solid feedback tailored to personal computing goals
- Networked with 296 computer science students to increase awareness about various computing research pathways

Research Assistant | University of Michigan School of Information   *Oct 2020 - April 2021*
- Operated Tobii Pro Fusion eye tracker to determine the cognitive load of 20 participants when they were attempting **Python** programming problems on Runestone Academy
- Utilized a **Python** script to parse through a CSV file filled with participants' programming solutions to analyze cognitive load to create a digital curriculum for programming concepts that reduces a student's learning time by at least 25%

PROJECTS

Personal Website | *HTML, CSS, JavaScript*
- Developed a website to grasp the fundamentals of **web development** and showcase personal portfolio

Log Manager | *C++*
- Implemented a program that reads an input file containing log entries, then enters an interactive mode where the user can perform timestamp, category, and keyword searches to construct an "excerpt list" of the log file

Templated Static Site Generator | *Python, HTML, CSS*
- Wrote a **Python** program that reads in **HTML** templates, JSON data, and misc. static files as input and generates a website of static content as output. Designed input for the **Python** program to return a clone of Instagram