

ADITYA SONI

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EDUCATION

University of Michigan, Ann Arbor

BSE Computer Science May 2021(Expected)

GPA: 3.9

Relevant Coursework: Data Structures and Algorithms, Introduction to Computer Organization, Foundations of Computer Science, Web Systems, Proof Based Linear Algebra, Operating Systems (in progress), Design and Analysis of Algorithms (in progress)

SKILLS

PROGRAMMING: C++, Python, JavaScript, C

WEB: Node.js, Express.js, React, Flask, MongoDB, Redux, HTML+CSS, JQuery, Selenium

TOOLS: Visual Studio, Git, XCode, Arduino IDE, Jenkins

EXPERIENCE

Ford Motor Company, Software Engineering Intern

May 2019 - Aug. 2019

- Developed a dashboard for the DevOps team using the MERN stack (MongoDB, Express.js, React and Node.js) to consolidate the monitoring and servicing of over 34,000 servers
- Integrated the dashboard with 4 internal tools to proactively identify server issues and significantly reduce downtime
- Designed and built a new feature for the Ford Pass application to encourage eco-friendly driving habits

Seven3Rockers, Software Engineering Intern

May 2018 - July 2018

- Implemented an authentication service using Node.js and Redis to secure the server from unauthorized requests
- Migrated large parts of the backend from PHP to Node.js by researching and implementing npm modules

EECS Department, University of Michigan, Instructional Aide for Discrete Math

Jan. 2019 - Current

- Led a discussion section of 30 students on topics including algorithms, graph theory and proof methods
- Developed study materials, held weekly office hours and monitored the online question forum, Piazza

MPowered Entrepreneurship, Vice President, Talent Development

Mar. 2019 - Current

- Organized a series of 5 entrepreneurship workshops in collaboration with Center for Entrepreneurship and Michigan startups
- Increased member attendance and participation by 20% in the club by organizing professional development events, planning weekly meetings and leading recruitment

PROJECTS

Live Cricket Updates

May 2019 - July 2019

Node.js, TypeScript, Socket.io, Selenium

- Built a Visual Studio Code extension that pushes live cricket updates to users, using socket.io for bi-directional client-server communication
- Executed a Selenium script to monitor a sports news website for updates in order to guarantee live scores

Laptop Lock

June 2019 - Aug. 2019

Python, OpenCV

- Built a desktop application that turns off a user's laptop when they fall asleep or leave to save energy and protect privacy
- Implemented a Haar Feature-based Cascade Classifier to detect and track the users eyes

YouTube to Spotify

May 2018 - Aug. 2018

JavaScript, HTML, CSS

- Developed a chrome extension that instantly adds songs being listened to on YouTube to a Spotify playlist
- The extension has averaged 50 impressions a day since August 2018

Map Reduce Server

Mar. 2019 - Apr. 2019

Python

- Implemented a multi-process, multi-threaded server that will execute any user-submitted MapReduce jobs
- Reinforced fault tolerance by monitoring worker heartbeats and redistributing jobs in the event of worker death