

Sahil Dogra

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EDUCATION

University of Michigan

Ann Arbor, MI

LSA Program, Intended B.S. in Computer Science

May 2022

- Current GPA: 3.73/4.00
- Relevant Coursework: Data Structures and Algorithms (C/C++), Web Systems (Python / ReactJS / SQL), Introduction to Machine Learning (Python), Introduction to Computer Architecture (C / ARM), Foundations of Computer Science

EXPERIENCE

Amazon

San Francisco, CA

Incoming Software Engineering Intern

July 2020 – October 2020

MathWorks Inc.

Natick, MA

Software Engineering Intern

May 2020 – July 2020

- Worked on full-stack internal companywide code search/navigation tool as part of the Simulink Semantics team, extending the tool to offer language-specific features via application of Microsoft's Language Server Protocol for MATLAB and JavaScript
- Implemented various frontend features from scratch with modern HTML/CSS/jQuery, improving user experience and the utility of the tool
- Added support for additional browsers and automated the tool's deployment workflow through the use of BASH scripting and the cron UNIX time-based job scheduler

University of Michigan

Ann Arbor, MI

Web Developer

October 2019 – April 2020

- Major projects include developing a Python script to greatly speed up the previously manual process of classroom assignment and developing/debugging various Google Apps Scripts (in JavaScript) to facilitate the study room reservation process

PROJECTS & HACKATHONS

StockSavvy (github.com/sdogra/stock-predictor)

May 2020

- Developed full-stack stock price prediction website utilizing ReactJS, Flask, jQuery, Alpha Vantage Stock API, Keras, and matplotlib
- Implemented Long Short-Term Memory (LSTM) neural network trained on historical NASDAQ stock data for purpose of future price prediction
- Dynamically rendered LSTM-generated projection graphs for users' chosen stock

SafetySiren (github.com/sdogra/Safety-Siren)

October 2019

- Brainstormed, designed, and developed a crowd-sourced safety alert web app in under 36 hours as a competitor at MHacks 12
- Implemented user interface with Vue.js, integrating Firebase and Google Maps APIs to allow authenticated users to see nearby crowd-sourced safety alerts in real time

SKILLS

- Experienced | C/C++, Python, HTML/CSS/JavaScript, Git, Bash
- Familiar | SQL, jQuery, ReactJS, Vue.js, Swift, NodeJS, Firebase, LaTeX