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**

Software Development Engineering Intern   July 2020 – present

- Contributing to various full stack end-to-end features as a part of the Advertising Technology team – using tools such as Amazon's EC2, EMR, S3, Apache Spark/Lucene, Scala, jQuery, Django, PostgreSQL, and Scrum/Agile methodology

MathWorks Inc.   **Natick, MA**

Software Engineering Intern   May 2020 – July 2020

- Extended internal companywide code search/navigation tool to offer language-specific features via application of Language Server Protocol for MATLAB and JavaScript
- 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 via Keras, 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