Sidhant Swami
Computer Science Major at the University of Michigan

Employment

Nielsen — New York, NY / 2020
DevOps Software Engineer Intern - Cancelled due to COVID-19 Pandemic

Endorsify LLC.
Software Engineer Intern — May 2019 to Aug. 2019
- Restructured MySQL database by aligning different account type attributes in order to make sensitive data more organized and compatible
- Enhanced front-end search filters on mobile-view to improve search accessibility for social media accounts on the website
- Reported, tested and fixed bugs across entire front-end website in both mobile and desktop views in order to improve website functionality and accessibility for clients

Zatna LLC.
Computer Science Instructor — June 2018 to July 2018
- Taught programming, robotics, web development, engineering, and app development concepts to over 100 younger students to promote involvement in the STEM curriculum

Projects

Visual Browsing Models for Real Estate Listings — June 2020 to Current
- Determined the domain of key phrases in Real Estate by ranking Language Models from a background and foreground corpus. Calculated the 'phraseness' and 'informativeness' of notable unigram, bigram, and trigrams by calculating the Pointwise KL Divergence.
- Created program capable of collecting and analyzing these phrases from over 500,000 of real-estate descriptions as foreground data and entire real-estate subcategory on Wikipedia as the background corpus. Ran these higher volume computations on Amazon EC2 instance and saved data on Amazon s3 database
- Utilizing the real-estate vocabulary to classify key attributes in pictures of real-estate listings.
- Scaling supervised learning in order to strengthen histogram intersection models of both indoor and outdoor real estate photos.

Twitter vs Finance News Sentiment Analysis — June 2019
- Utilized Beautiful Soup Python package to gather and analyze data from Finance News websites based on a stock ticker query in order to understand the impact of news articles on social media, and therefore the Stock Market
- Determined how positive, negative or neutral given articles/ tweets were through the Sentiment Analysis Machine Learning Algorithm. Web scraped articles/stock tickers from CNNMoney, Fox News, Fox Business, and MarketWatch. Applied Twitter API to fetch and analyzeTweets regarding topic
- Replacing Sentiment Analysis API with own written implementation

Code for Good Hackathon Poder Mobile Application Prototype, 2nd Place — Sept. 2019
- Created a mobile application prototype for non-profit group Poder, which works with adult-immigrants settling in the Chicago area at the JP Morgan Chase's Code for Good Hackathon.
- Developed REST API to establish requests of user data and preferences to the Poder's Lightening Platform Salesforce CRM, helping maintain student registration and classroom management data
- Selected as Finalist; Prototype is to be integrated with JP Morgan Chase's Force for Good program.

Google Charts Tradelytics — July 2018 to Sept. 2018
- Charted important live market and trade performance data on a trade analysis website by using the Google Chart API in order to create a user-friendly alternative for users
- Developed test scripts and reported potential bugs in overall website

Stochastic Oscillator Web App — Aug. 2018 to Sept. 2018
- Created a Website Application that uses the Live Alpha Vantage Stock API data to calculate the momentum of a particular stock.
- Provides how Bearish or Bullish a certain stock market ticker.
- Visualized with Google Charts API to develop accurate histograms of particular stock(https://stochasticoscillator.azurewebsites.net/)

StockX Alexa Integration — Sept. 2018
- Pulled data with the StockX API, which provides market data of certain products sold on their website
- Called with Lambda Functions on Amazon Web Services in order to create an Alexa Program
- Integrated the link between the StockX API and Alexa program to have users communicate with Alexa to learn more about products they are interested in

Activities

MPowered Technology Team · Tech Consultant — Sept. 2018 to May 2020
- Worked on Cloud Infrastructure Consulting Projects for Start Up based in San Francisco by developing multiple API endpoints to process and deliver geographical data from a DynamoDB database to a web application.
- Also, managed and modified data handling in DynamoDB on AWS to increase data access from React.js in above project
- Worked on Back-end to Front-end Management with StockX by creating dynamic footer that provides featured products, in order to increase hit rates and present most popular items

Impact Investing Club · Education/Fintech Technology Team Member — Sept. 2017 to Sept. 2019
- Researched the Educational Technology markets at both the federal and private level in order to present our findings to the Kresge Foundation .
- Analyzed the niche markets, government involvement, current players, and focused on understanding market creation by using SWOT analysis.
- Researched current usages of FinTech in insurance fraud sector in order to determine consumer protection in insurance market

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Contact

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Education

University of Michigan — Sept. 2017 to Current
B.S.E. Computer Science 2021
Coursework: Data Structures and Algorithms, Discrete Math, Intro to Computer Organization, Web Systems, Programming Languages,

Skills

PROGRAMMING LANGUAGES
C++
Java
Python
Javascript
HTML5/CSS
C
PHP
MATLAB

FRAMEWORKS
React.js
Angular.js
Laravel

Awards

Eagle Scout Rank	Boy Scouts of America
Presidential Volunteer Service Award-Silver	President's Council on Service and Civic Participation