

Sidhant Swami

Computer Science Major at the University of Michigan

Employment

Nielsen
DevOps Software Engineer Intern - Cancelled due to COVID-19 Pandemic

New York, NY
2020

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 BeautifulSoup 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 analyze Tweets 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 Lightning 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

Contact

✉ sswami@umich.edu

☎ 6094226390

in [sidhant-swami](#)

🌐 [sidhantswami](#)

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

Leadership

**Sigma Beta Rho Fraternity -
External Vice President**

Jan. 2020 to
Current

- Educate new member education learning programs made by National Sigma Beta Rho Fraternity Inc.
- Delegate strong team collaboration skills by working closely with various chairs and coordinating with Board
- Lead Executive Board meetings to ensure and organize \$8000 budget for events throughout the semesters
- Orchestrate fundraising events to benefit S.O.S. Children's Village, raising over \$2000
- Facilitate professional and academic development opportunities for members by alumni outreach, academic planning, and resume review sessions