Shanmukh Swaroop Srinivas

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EDUCATION

University of Massachusetts Amherst
Master of Science in Computer Science
Relevant courses: Advanced Algorithms, Machine Learning
Expected Graduation: May '22

Indian Institute of Technology Madras
Bachelor of Technology in Chemical Engineering; GPA: 8.65/10.0
Relevant courses: Data Structures and Algorithms, Graph Theory
May '20

PROGRAMMING SKILLS

- **Languages**: Python (Fluent), C++ (Familiar) **Web Development** : HTML, CSS, Javascript, PHP, MySQL, AJAX
- **Technologies**: Git, MATLAB, GNU Octave, LaTeX **Libraries** : Scikit-learn, NumPy, TextBlob, NLTK, Pandas

EXPERIENCE

JP Morgan Chase & Co.
Software Engineer Intern
Skills: Python, React.js, Sckikit-learn
May '19 - July '19

- Visualized work progress of employees using a **React.js** based web application in collaboration with a team of 25 people.
- Forecasted bank balances using a **Supervised Machine Learning** model with **99.73%** prediction accuracy, earning award as a part of JP Morgan Chase's **Global Hackathon**.
- **Productionized** both the projects during the internship.

Anyelp - an on-demand services company
Freelance Software Developer
Skills: HTML, CSS, Javascript, PHP, MySQL, AJAX
May '20 - July '20

- Developed and integrated **REST APIs** with the mobile application which fueled an **additional major revenue stream** through the Service Click-and-book functionality. [Project link]
- Succeeded in developing **Full Stack Web Applications** to book at-home services by integrating **REST APIs** and **Google Maps APIs**. [Project link]

Real Tycoon - a digital marketing startup
Software Developer Intern
Skills: Python, HTML, CSS, Javascript, PHP, MySQL
May '17 - July '17

- Analyzed real estate data from a city and devised an algorithm to find the best location with minimal living costs, sought facilities and the best value for money.
- Designed and developed a dynamic and modern website for a digital marketing agency, by incorporating **Javascript, jQuery, PHP, and MySQL**.

PROJECTS

- **SafeSpot - HackUMass VIII** [Github]: Skills: Python, Flask, React.js
  - Produced a **COVID-19 Safety Score** for any place on the globe using Scraped Google Reviews and Sentiment Analysis of Local Tweets about vaccines.

- **Cryptocurrency Trading Algorithm** [Github]: Skills: Python, TextBlob, NLTK
  - Incorporated **Sentiment Analysis** on Scraped Relevant Articles and Swap Funding Rate.
  - Generated a profit of $\sim$**1200%** during backtesting.

- **Lowest pollution route - Sangam ML Hackathon (Winners)** Skills: Python, Scikit-learn
  - Processed GPS pollution data from multiple mobile sensors & handled missing GPS data using vector calculus.
  - Built **Spacio-Temporal prediction models** using **LSTM** and **SARIMA** to visualize pollution levels and to find the route with the lowest pollution.

- **Weighted Graph Partitioning Algorithm for Optimal Sensor Placement** Skills: MATLAB
  Guide: Dr. Sridharakumar Narasimhan, IIT Madras
  February '19 - September '19
  - Formulated an efficient partitioning algorithm by weighing the edges of a power system network which is conceptualized as a graph with the electrical lines as edges and buses as nodes.
  - Expedited the runtime of the algorithm by $\sim$**20%** after the proposed modification.
  - Presented a poster at Indian Process Systems Engineering Conference (IPSE), Chennai, India