

Shanmukh Swaroop Srinivas

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EDUCATION

- **University of Massachusetts Amherst** Relevant courses: Advanced Algorithms, Machine Learning
Master of Science in Computer Science Expected Graduation: May '22
- **Indian Institute of Technology Madras** Relevant courses: Data Structures and Algorithms, Graph Theory
Bachelor of Technology in Chemical Engineering; GPA: 8.65/10.0 May '20

PROGRAMMING SKILLS

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

EXPERIENCE

- **JP Morgan Chase & Co.** Skills: Python, React.js, Scikit-learn
Software Engineer Intern 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** Skills: HTML, CSS, Javascript, PHP, MySQL, AJAX
Freelance Software Developer 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** Skills: Python, HTML, CSS, Javascript, PHP, MySQL
Software Developer Intern 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 **~1200%** during backtesting.
- **Lowest pollution route - Sangam ML Hackathon (Runners-up)** 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 **~20%** after the proposed modification.
 - Presented a poster at Indian Process Systems Engineering Conference (IPSE), Chennai, India