

Shivam P. Patel

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Education

The University of Texas at Austin
B.S. in Computer Science, Mathematics,
Certification in Applied Statistical Modeling

Expected May 2020
Major GPA: 4.0 , Cum GPA: 3.96

Experience

Software Engineering Intern, Capital One, McLean, VA Summer 2018

- Developed python-based proof of concept (POC) to generate holistic Money Laundering investigation textual reports.
- Reduced investigation workflow by 35%, increasing annual dept. capacity by 100k cases
- Trained self-learning Snips-NLU model to extract intentions from investigation comments.
- Integrated POC into Angular app with Flask API connection.

Computer Science Lecturer, Coding4Youth, Remote Sept 2017 - May 2018

- Cultivated programming skills and ideology within younger students on remote platform.
- Curated exercises to stress fundamentals of data structures and algorithm design.

Software Engineering Intern, McDonald's Global HQ, Chicago, IL Summer 2017

- Procured python Selenium tests to ensure software integrity for Global Performance Matrix.
- Developed back-end R program to help analyze and identify bottlenecks in site performance.

Software Engineering Intern, Sonne Industries, Chicago, IL Summer 2016

- Designed X-Code UI wireframe to expand platform development for product.
- Conducted international market research to grow consumer base.

Research

Research Team Lead, Peter Stone - AI/Robotics Lab, Austin, TX Aug 2017 - Present

- Spearheading R&D of autonomous behavior for Simultaneous Localization and Mapping.
- Developed ROS, C++ Augmented Reality Tag localization system solely based on a AR-Tag graph network to allow agents to self-localize.
- Catalyzed overhaul of research lab's previous Monte-Carlo agent localization system.

Projects

- **AR-Based Localization System** - ROS System that learns and constructs a 3D network of AR Tags and self-localizes an agent based on AR-Tag Network.
- **Optimal Playlist** - Web application that creates the most optimal playlist for a group of Spotify users for a party.
- **Yelp Me Out!** - Web Application that simplifies searching for an experience using Yelp Fusion API.
- **Flight Finder** - Utilized cloud-based web scraping technologies to find cheapest flights 24/7 using Twilio API to text user if a cheap flight was found.
- **Tab Saver** - Chrome extension saves user's tab and window state before terminating browser, giving ability to restore previous state on re-launch.
- **Matrix Calculator** - Developed web application to perform matrix computations such as Determinant, Inverse, and Product computations - application used by current students to better understanding of fundamental Linear Algebra.

Skills

Languages: Python, Java, C, C++
Frameworks: ROS, Flask, Heroku, Git, Selenium, Jira