

Shivam P. Patel

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Education

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

Expected May 2020
GPA: 3.96

Experience

Incoming Software Engineer, Facebook, Seattle, WA Aug 2020

Software Engineering Intern, Facebook, Menlo Park, CA Summer 2019

- Contributed to Facebook Stories Backend Infrastructure
- Built Framework to generate collections of different Facebook Stories in user's News Feed
- Led to Increases of 3.56%, 5.1%, and 4.4% in Facebook Story Views, Opens, and Replies.
- Project receives **300 M requests on an hourly basis** from Facebook traffic

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

- Developed POC to generate holistic Anti-Money Laundering (AML) textual reports from numerical input
- Potential to reduce investigation workflow 35%, increase annual dept. capacity by 100k cases
- Trained Natural Language Understanding model to extract intentions from investigations.
- Integrated POC into Angular app with Flask backend server.

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.

Research & Publications

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

- Spearheading semantic mapping for integrated pose registration (SIMPR) project
- Developing autonomous localization framework to self-localize service robots based on room placard identification and homography calculations
- Developed ROS, C++ AR-Tag localization system solely based on a AR-Tag graph network to allow agents to self-localize.

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.

Skills

Languages: Python, C, C++, Java
Frameworks: ROS, Flask, OpenCV, React, Heroku, Git, Selenium
Tools: AWS (EC2, S3), Cloudfront, Docker, Jira, CI/CD