

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 a text-generating POC to streamline Money Laundering investigations
- Decreased investigation workflow time up to 35% to increase Anit-Money Laundering Dept. productivity
- Trained and developed self-learning Natural Language Understanding model to extract intentions from investigation comments
- Ported application into Flask API framework to create stable portal for application access

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

- Teach students fundamentals of Java Programming through web platform
- Curated exercises to stress fundamentals of data structures and algorithm design

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

- Procured Test Plans to ensure Software Integrity for Global Performance Matrix
- Developed back-end program to help analyze and identify bottlenecks in site performance

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

- Developed application wireframe to expand platform development for product
- Conducted Market Research through international platform

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 AR-Visual localization system solely based on a AR-Tag graph network to allow an agent to self-localize
- Project impact catalyzed overhaul of Research Lab's previous Monte-Carlo 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 web scraping technologies to find cheapest flights 24/7 while running on the cloud, used Twilio API to text if a cheap flight was found.
- **Tab Saver** - Chrome extension that saves user's tab and window state before terminating Google Chrome, user has 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: Java, Python, C, C++
Frameworks: ROS, Flask, Heroku, Git