Shivam P. Patel
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Education

The University of Texas at Austin   Expected May 2020
B.S. in Computer Science, Mathematics,   Major GPA: 4.0 , Cum GPA: 3.96
Certification in Applied Statistical Modeling

Experience

Data Engineering Intern, Capital One, McLean, VA   Summer 2018
- Incoming Intern on Data Engineering Team working with Big Data software and frameworks

Computer Science Instructor, 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
- Developed Test Plans to ensure Software Integrity for Global Performance Matrix
- Developed back-end logic to help identify bottlenecks in site performance
- Ensured Data Integrity between SQL Database and Tableau Reports
- Analyzed Performance Statistics with Statistical Models and Tests

Application Dev 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
- 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 localizes a Robot based on AR System
- **Optimal-Playlist** - Web application that automatically creates the most optimal, commonly agreed-upon playlist for a group of Spotify users for a party
- **Yelp Me Out!** - Full-Stack 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.
- **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
- **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

Organizations

Technology Director and Dancer, Punjabbawockeez, Austin, TX
- Development lead of re-making organization website
- Organized communication medium to single channel to increase efficiency

Skills

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