Yash Patil

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Portfolio: yashpatil.me
github.com/ypat125
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SKILLS

Languages: Java, Javascript, Node.js, Python, C++, HTML/CSS
Tools: Expo/React Native, Git, Twilio, SQL, Google APIs, Firebase, Django
Skills: 3D printing, Arduino, UNIX, Web scraping

EXPERIENCE

Co-founder **— Helping Hands** (https://helpinghands.community) March 2020 - Present

- Helping Hands is a nonprofit organization that provides free delivery and errand running for those most at-risk during COVID-19. We connect volunteers across the country with people in need through our scalable web app.

Researcher **— Webber Energy Group** (http://www.webberenergygroup.com/people/yash-patil) August 2019 - Present

- Created a digital model of Texas' power grid using Python for Power Systems Analysis (PyPSA) used to determine optimizations for economic dispatch in different scenarios while simulating Texas' power grid

Software Engineering Intern **— Pei** (getpei.com) May 2019 - August 2019

- Pei is a Sputnik ATX backed startup developing an automatic cashback app that allows users to save money when shopping at partnered merchants.
- Developed a mobile application using React Native and other web-mobile tools as well as API endpoints using Django, Python, mySQL, SQL, and AWS.

Software Engineering Intern **— Pei** (getpei.com) June 2018 - August 2018

- Created a web based interface for user analytics and data representation using SQL and Python.
- Performed SQL database maintenance and unit testing for backend API endpoints using mySQL and Python.

PROJECTS

HeyStay — *Developer* August 2019 - September 2019

- App that allows RVers to find a place to stay for the night at someone's private property. Airbnb for RVs.

Echo — *Developer* (getecho.app) August 2018 - January 2019

- Echo is an app that allows any user to start their own short form podcast series. It uses a social media like model so users can gain followers, promote their content, and join the conversation.
- Used React Native, ExpoKit, and Firebase for application development in addition to python web scrapers to gather promotional data.

Ecuisina — *Developer* (ecuisina.com) June 2017

- Created an online food trading platform for users to barter home cooked foods and experience authentic cuisines locally and affordably.

Gimme SMS — *Developer* (gimmesms.com) May 2016

- Created a service for users that do not have data plans to simply text a phone number and receive turn by turn directions, address locations, and weather information scraped from the web.
- Built using Python, Twilio, and Google Maps APIs.

EDUCATION

Liberal Arts and Science Academy, Austin, Texas 2017 - 2021

- **Coursework**: Advanced Computer Science, AP Computer Science, Computer Science Independent Study, Calculus, Differential Equations, Digital Electronics, UT Introduction to Python CS 313E (UT Audited course), Introduction to Java, Graphic Design

EXTRACURRICULARS

Science Olympiad (Team Captain 2018 - Present), Personal Event Focus: Engineering 2014 - Present

- **Mission Possible:** A RubeGoldberg-like device that triggers an end task through a series of defined electrical, mechanical, or chemical actions.
  - **State Competition** (1st - 2018); **UT Austin** (1st - 2018, 2019); **MIT** (3rd - 2018)
- **Mousetrap Vehicle:** A vehicle using mouse traps as its sole means of propulsion that can push a plastic cup forward, reverse direction, and come to a stop behind the start point at a specified endpoint.
  - **MIT** (1st - 2019); **UPenn** (1st - 2018, 2nd - 2019); **UT Austin** (1st-2019; 2nd-2018)
- **Gravity Vehicle**: A ramp and vehicle (up to 2kg) that uses the gravitational potential energy to propel the car to a target point in the shortest time possible.
  - **UPenn** (1st - 2020); **UT Austin** (1st - 2020); **MIT** (6th - 2020)
- **Ping Pong Parachute**: A rocket and parachute that keeps a ping pong ball aloft for as long as possible.
  - **UPenn** (2nd - 2020); **UT Austin** (2nd - 2020)
- **Experimental Design:** Competitors design, conduct, and report the findings of an experiment conducted entirely on site.
  - **State Competition** (1st - 2019); **UT Austin** (1st - 2019, 2020); **MIT** (2nd - 2019; 3rd - 2018); **UPenn** (2nd - 2018)

UT Solar Car (JJ Pickle Research Center): Worked on interface for monitoring battery pack telemetry. July 2019 - August 2019

Programming UIL

- Indeed Invitational, advanced division - 2nd Place (2019), Indeed Invitational, novice division - 1st Place (2018), ARM Invitational, novice division - 1st Place (2018)

LASA Ambassador: Participated in recruitment events and representation of the LASA high school. June 2019 - Present