Yash Patil

yash.s.patil125@gmail.com
(512) 934 -1274

Portfolio: yashpatil.me
github.com/ypat125
bitbucket.org/ysp125
linkedin.com/yash-s-patil

SKILLS

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

EXPERIENCE

Co-founder and Software Engineer — **Helping Hands** (helpinghands.community) March 2020 - Present

- Helping Hands is a nonprofit tech platform that streamlines how food banks and social service organizations deliver food. Organizations can schedule deliveries to be fulfilled by volunteers and ride-share drivers en masse.
- Developed site user interface (React) and backend infrastructure (Node.js + Firebase).

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

- Created digital models of Texas' electric grid using Python for Power Systems Analysis (PyPSA).
- Used models to run simulations in economic dispatch, power transmission, and capacity expansion.

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

- Pei is a venture-backed FinTech startup developing tech to apply automatic cashback when shopping at partnered merchants.
- Developed application features like a referral program, friend system, and a way to dispute missing transactions.
- Used React Native for mobile development and Django, Python, and mySQL to build out an API.

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

- Created a web based interface to display user analytics and other customer data using SQL and Python.
- Performed SQL database maintenance and unit testing for backend API endpoints.

PROJECTS

HeyStay — *Developer* August 2019 - September 2019

- HeyStay allows RV campers to rent parking and household amenities on people's private property. Airbnb for RVs.
- Built using React Native, Firebase, and Stripe.

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

- Echo is an app that lets any user start their own short-form podcast series.
- Created python web scrapers to gather promotional data from Instagram and Twitter. Ran scrapers on AWS EC2 instances.
- Built using React Native, ExpoKit, and Firebase.

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

- Ecuisina is a trading platform for users to barter home-cooked foods and experience authentic cuisines locally and affordably.
- Built using Javascript, Jquery, and Firebase.

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

- GimmeSMS is a service that lets users without cellular data plans access the web through SMS texting.
- Implemented functionality for turn-by-turn directions, address locations, and weather information.
- Built using Flask, 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