

Parth Saxena

Aspiring entrepreneur with experience in frontend & backend development, algorithms, and infrastructure design.



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EDUCATION

Pursuing B.S. in Computer Science
University of Illinois-Urbana Champaign

2020 - 2023

PERSONAL PROJECTS

VoiceEDx - Machine-learning diagnostic platform [🔗](#)

- In a team of 3, we expanded our machine-learning diagnostic platform to several neurological disorders, including ALS, TBI, and more. I developed a scalable backend infrastructure to allow seamless expansion to more diseases, coupled with an integrated blockchain storage mechanism to securely store and transfer confidential medical records.
- I developed several implementations to maximize accessibility in the developing world, including a toll-free international call-in system, a web app, iOS app, and Android app.
- Achieved ~70% average sensitivity across multiple conditions.
- We won 4th-place in-category at the Intel Science & Engineering Fair 2018.

MTRbot - Automated crypto trading system

- I developed an automated trading system that used algorithmic approaches to analyze market patterns as well as a bot to exploit arbitrage opportunities across leading cryptocurrency exchanges (Binance, Bittrex, Bitfinex, Kucoin, and more).
- Raised over ~\$23k from friends & family willing to invest in MTRfund.

ParkEDx - Voice-based diagnosis of Parkinson's [🔗](#)

- In a team of 3, we developed a machine-learning pipeline to detect patterns in patients' vocal signatures that are indicative of Parkinson's disease. Using voice as a bio-marker, we developed a ranker algorithm to determine vocal features most pertinent to the diagnosis of Parkinson's.
- Achieved ~86% average sensitivity.
- We won 4th-place in-category at the Intel Science & Engineering Fair 2017.

E-chase - DoorDash for anything and everything

- Under the umbrella of Socify LLC, I developed an end-to-end P2P delivery platform connecting stores to local consumers. Inspired from the UberX model, E-chase offered consumer apps available on iOS, Android, and Web, along with a suite of mobile apps for drivers.
- I automated database-generation through a web-crawler that scraped inventory information from leading online retailers like BestBuy, Walmart, Target, and more, in addition to pulling data from commerce APIs like Goodzer, Axesso, and more.

Hackitor - cloud-based IDE

- Hackitor was a web-based IDE designed to help students learn how to code. Hackitor had a drag-and-drop interface through which users could drag HTML & CSS elements to build interactive, responsive websites. Hackitor also offered an integrated web hosting service to easily deploy web apps.
- I developed Hackitor to run on an Ubuntu machine hosting an Apache web server paired with a MySQL database to store user data with most of the service written in PHP.

SKILLS

Java

Swift

Node.js

Python

C++

HTML / CSS

AWS

Firebase

AWARDS

Intel ISEF 2018 4th-place (IC)

Society for Science & the Public

Intel ISEF 2017 4th-place (IC)

Society for Science & the Public

Intel Excellence in CS

Intel

SAMVID Excellence in Computing, Robotics, & AI (2x)

SAMVID

Mu Alpha Theta Math Award

Mu Alpha Theta

King Abdul-Aziz: Award for Research in Innovative Technology

King Abdul-Aziz & his Companions Foundation for Giftedness & Creativity

Eagle Scout

Boy Scouts of America

National Merit Scholarship Finalist

National Merit Scholarship Corporation

OTHER

YouTube Channel - TheSwiftUniverse (2014 - 2017)

Managed a YouTube channel to teach mobile and server development. Amassed 100,000+ views & 1,000+ subscribers.

GoHacks (2019 - 2020)

I organized a biannual hackathon in the Bay Area through a sponsorship from Zoho Inc.

Boy Scouts of America (2012 - 2020)

Scouting has enriched me with a sense of discipline and a set of values to guide me through the hardships I face.

PERSONAL PROJECTS

Magnet [↗](#)

- I developed a desktop application to stream over 15,000 movies for free. I developed a web-crawler to scrape online torrent engines and movie databases to collect cast information, movie synopses, IMDB ratings, and high-quality torrent streams. I optimized the streaming process and torrent-finder to provide a ~2.5x faster experience than PopcornTime.
- Movie loading times are truly comparable to those of Netflix, Prime Video, etc. (4.6 seconds average initial buffer delay for most triple-A titles)
- Completely open-source; No intentions to grow / commercialize.
- Available on Mac and Windows.

Co-founded Socify LLC [↗](#)

- I provided software consulting services to a variety of clients, ranging from fashion-based companies to emergency-response services. I worked with a wide variety of technologies to meet the needs of a diverse clientele.

Internship at Gill Innovations LLC

- I worked on SaivLife: a service to silently relay victims' live audio, video, and location data to emergency first-responders. I developed an end-to-end solution, including a central streaming server (using RTSP), a 911 web portal, and Android application for users.