Anjali Vyas

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Education

Aug 2021 – May 2023 **Cornell Tech, New York, NY**
Master of Science in Applied Information Science & Master of Science in Information Systems with a Concentration in Connective Media
- *Relevant coursework:* HCI, Applied Machine Learning, Business Fundamentals, Health Tech

Sep 2017 – May 2021 **University of Michigan, Ann Arbor, MI**
B.S.E. in Computer Science Engineering with a minor in Mathematics, 2021, Magna cum laude
- 3.63 CGPA
- *Honors:* Dean's honor list Fall '18, Fall '19, Fall '20, Winter '21. Ginsberg Community Engagement Grant 2019.
- *Relevant coursework:* Machine Learning, Software Engineering, Programming Languages, Computer Security

Experience

Jun 2021 – Aug 2021 **Software Development Intern,** *Evolve Education, London, UK*
- Designed and implemented a calendar and habit/goal tracking system, interactive charts (Chart.js) and dashboards to improve children's wellbeing. Used Laravel (PHP framework) for development and Figma for design.
- Developed custom chart functions for visualizing progress using p5.js

Jan 2020 – Dec 2020 **Instructional Aide for Foundations of Computer Science,** *University of Michigan College of Engineering*
- Created homework and exam questions based on lecture and discussion material including algorithmic design paradigms and analysis, polynomial time computability, randomness in computation, and cryptography.
- Taught discussion sections, held office hours, and answered questions on Piazza. Also organized meetings and learning resources as course admin in Spring 2020.

Research

May 2020 – May 2021 **Ensafi Lab***, University of Michigan*
- Analyzed COVID-19 Internet censorship measurement data (using BigQuery) to identify and understand reasons behind blocking of webpages with useful information for people. Was named the first author of our team paper selected by the *Financial Cryptography and Data Security Conference (2021)*. talk, paper
- Tested a desktop app (VPNalyzer) empowering users to analyze the performance of their VPNs. Developed and pretested a user survey taken by over 1000 VPN users to understand their needs and challenges and to increase transparency in the VPN ecosystem while working with Consumer Reports.

Jan 2019 – Dec 2019 **Multidisciplinary Design Program***, University of Michigan College of Engineering*
- Conducted preliminary research with Peltier devices to create a haptic navigation device for people with visual impairments under Research Scientist Lauro Ojeda.
- Worked on an optical surgical device tracker (EyeToolTracker) that uses computer vision and machine learning. Using OpenCV and Python to make robotic eye surgeries easier, less risky, and more prevalent.
- Presented poster on EyeToolTracker at the Multidisciplinary Design Program Design Expo.

Projects

Jun 2021 – present **FeedBee** welcome.tryfeedbee.com
- Developed a tool to help newsletter writers get feedback more easily with 4 teammates, launched on Product Hunt and got 7 customers on a free trial.
- Conducted user interviews, designed logos and gifs, but primarily worked on software development of dashboard using ReactJS and Firebase.

Nov 2017 – May 2021 **CSF Global Partnership,** *M-HEAL at University of Michigan*
- Led a team of 10 and partnered with CSF Global in Bangladesh to empower children with Cerebral Palsy.
- Developed assistive plates, gloves and educational materials on nutrition for caregivers and children.

Apr 2021 **Letra,** *Google Chrome Extension*
- Contributed to Letra, an open-source Google Chrome extension project on GitHub that helps people learn new languages passively every time they open a new tab.
- Added a toggle button that hides/shows romanization of words in different languages to reduce distraction.

Sep 2020 – Dec 2020 **Spirelephant,** *EECS 495 – Software for Access at University of Michigan*
- Designed a game – "The Spirelephant" using Unity to help children's lung recovery after surgeries using Spirometers in partnership with doctors at CS Mott children's hospital.
- Led a team of 4 people to implement "The Spirelephant."

Sep 2020 – Dec 2020 **Yelp review classifier, Fashion MNIST classifier**, *EECS 445 – Machine Learning at University of Michigan*
- Designed and implemented a linear classifier using a large dataset of restaurant customer reviews that distinguishes good reviews from bad reviews. Also implemented a classifier for multiclass classification into good, neutral or bad.
- Designed and implemented a convolutional neural network to distinguish images of clothing from each other.

Technical Skills (in order of proficiency)

Python, C, C++, HTML, Laravel, OCaml, MATLAB, JavaScript, CSS, SQL, MongoDB, Firebase, Express, Node.js, jQuery, PHP, Golang, ReactJS, Rust