Mingze(Lily) Yan

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Education

Northwestern University McCormick School of Engineering Evanston, Illinois
Bachelor of Computer Science Expected Jun 2023
Minor: Economics and Data Science
Cumulative GPA: 3.71/4.00 Honor: Unicode SC Hackathon Finalist
Relevant Coursework: Engineering Analysis, Statistics, Computer Science, Linear Algebra, Application in Econometrics, Economics, Classes in Entrepreneurship and Project Managements

Skills

- Programming Languages: Java, Python, C, C++, Rstudio, Matlab, Stata, Arduino, Racket
- Software Skills: Microsoft Office Suites, Adobe Premiere Pro, Adobe Photoshop, Visual Studio, Anaconda, AutoCAD
- Language Skills: Mandarin (Native), English (Fluent), Spanish (Intermedia)

Internship Experience

Northwestern CS110 Evanston, IL
Peer Mentor Mar 2020 - Present
- Held 2-hour weekly office hours to answer students' questions about Python projects and homework
- Taught weekly tutorial sessions to provide students' more exercise in Python

Dong's Cosmetics Panjin, China
E-commerce department assistant Apr 2020 - Sep 2020
- Cooperated with 3 departments to plan and host 20+ live broadcasts with 20,000 followers
- Utilized Adobe Photoshop to design advertising posters, created promotional materials, and posted on Wechat moment
- The cosmetics sales were increased by 500% in 5 months

Argonne National Laboratory Lemont, IL
Student Researcher Jun 2020 - Sep 2020
- Conducted independent research on using Artificial Intelligence and Computer Vision to estimate flood water depth from images
- Applied Python to scrape and collect 700+ image data from online social media
- Used Python and Pytorch to achieve face recognition and semantic segmentation of images to assess the water depth
- Made presentations twice a month to update the research progress and summarize the result to 15+ researchers

Project Experience

Safe on Campus Evanston, IL
Team Leader Aug 2020 - Sep 2020
- Collaborated with 3 teammates to build a website that can ensure users' health and safety when attending in-person social events during COVID-19
- Used React and AntDesign to build the website interface
- Attended Unicode SC Hackathon and Northwestern McCormick Designathon to present a demo to 30+ audiences

Dog Dryer Noise Reduction device Evanston, IL
Bridget McMullan and Jeanine Casler Apr 2020 - Jun 2020
- Collaborated with 3 teammates to devise a two-part component device that reduced noise of high-velocity dog dryers
- Applied product design iterations and AutoCAD to prototype the product
- Used Adobe Photoshop and Google Slide to make a compelling presentation to present the product for client

Power Leg Lifter Evanston, IL
Mark Fisher and John Bishop Jan 2019 - Mar 2020
- Cooperated with 3 teammates to build a device that could help the disabled to lift one of their legs
- Applied product design iterations to design the product from scratch
- Used Adobe Photoshop to make a poster and presented the product in the Design Expo

Leadership Experience

TutorMatchUp Evanston, IL
Project Manager Feb 2020 - Present
- Pitched my idea to 20+ .dev members and collaborated with team members to work on TutorMatchUp
- Designed website interface components and built user database using React and AWS
- Supervised every team members' working progress and organized weekly team meetings to update the progress

Society Of Women Engineers Evanston, IL
Professional Development Junior Executive Dec 2019 - Present
- Organized 2 events to solidify the underclassmen connections between women engineers, attracting 30+ participants
- Reached out professional development campus resources to prepare career resources for SWE members

Campus Experience

Northwestern Solar Car Software Team Evanston, IL
Team Member Sep 2019 - May 2020
- Optimized the conversion of collected data stream to human readable data
- Used Python and Adafruit to map solar car's movement route and reflect car's instantaneous velocity and acceleration