

Mingze (Lily) Yan

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Summary

Aspiring Software Engineer, strong at teamwork and communication, proficient in marketing and leadership experience, with multiple Software Engineering internship in tech and start-up companies, actively looking for 2022 summer internship

- **Programming Languages**
Java, Python, C, C++, Rstudio, Matlab, Stata, Arduino, Racket, HTML, CSS, JavaScript, React, TypeScript
- **Communication and Leadership Experience**
Worked as a peer mentor to teach students Python. Had multiple experience in managing projects and communicating effectively with team members
- **Software Skills**
Microsoft Office Suite, Adobe Premiere Pro, Adobe Photoshop, Visual Studio, Anaconda, AutoCAD
- **Language Skills**
Mandarin (Native), English (Fluent), Spanish (Intermedia)

Education

Northwestern University McCormick School of Engineering

Evanston, Illinois

Bachelor of Computer Science, minor: Economics and Data Science

Expected Jun 2023

Cumulative GPA: 3.85/4.00

Honor: PNC – L.E.A.D. in Code Top 5, Facebook Data Challenge Finalist, Unicode SC Hackathon Finalist

Certificate: AWS Cloud Foundation Certification

Relevant Coursework: Engineering Analysis, Human-computer Interaction, System, Database, Artificial Intelligence, Data Visualization, Data Mining, Linear Algebra, Application in Econometrics, Economics, Classes in Entrepreneurship and Project Managements

Internship Experience

Amazon Inc. | *Software Development Engineer* | Seattle, WA

Jun 2021- Present

- Wrote two detailed design documents by reading wiki and codebases and presented in front of whole team for review
- Coded in Java to integrate Content Symphony with Content Aggregator to allow providers to easily customize playlists for millions of users in Fire TV
- Used TypeScript to write CDK packages to set up AWS CloudWatch alarms for backend services

Marion | *Software Development Engineer* | Evanston, IL

Oct 2020 - Jun 2021

- Self-learned the Bayes Classifier algorithm in natural language processing by reading Google Scholar articles
- Collected thousands of language classification samples and used JavaScript to train the classification model
- Integrated the model with front end to allow automatic recommendation of topics to add in the neural network

Argonne National Laboratory | *Student Researcher* | Lemont, IL

Jun 2020 - Sep 2020

- Conducted independent research on the use of 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

Trix4Kids | *Product Manager*

Apr 2021

- Brainstormed ideas with 3 teammates to expand PNC Bank products through improving adolescents' financial management awareness
- Used Python Flask and CSS to complete an engaging simulation game for target customers
- Presented the business plan and demo in front of the judge, achieving the top 5 ranking

Facebook Data Challenge | *Finalist*

May 2021- Present

- Use SQL to analyze trends of the Netflix movie and TV shows as of 2019 and create a business pitch
- Employ R to create 6 data visualizations to support recommendations and present it in front of the team

IEEE Material Science Website | *Software Development Engineer*

Nov 2020 - Apr 2021

- Communicated with Argonne National Laboratory material scientists to understand the requirements
- Designed the front-end website interface, used React and Google Firebase for full-stack web development
- Showcased the website to judges and received 2nd place in design

Leadership Experience

Society of Women Engineers | *Professional Development Junior Executive*

Dec 2019 - Present

- Organized 5 events to solidify the underclassmen connections between women engineers, attracting 100+ participants
- Reached out professional development campus resources to prepare career resources for SWE members

TutorMatchUp | *Project Manager*

Feb 2020 - Aug 2020

- 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