

Amy Chen

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EDUCATION

Northwestern University, Weinberg College of Arts and Sciences

Evanston, IL

Bachelor of Arts in Statistics, Economics, and Mathematical Methods in the Social Sciences

Expected June 2020

- GPA: 3.84/4.00, ACT: 35/36, Dean's List: 7/7 Quarters
- Relevant Courses: Data Science, Intro to AI, Statistical Computing, Linear Algebra, Multivariable Calculus, Game Theory
- Computer Skills: (proficient) Python, R, HTML, CSS, SQL, Git (familiar) JavaScript, Scala, Java

WORK EXPERIENCE

Yelp

San Francisco, CA

Backend Engineering Intern

January 2019 – April 2019

- Pioneered internal tool to calculate session metrics then serialize and publish to data streams, saving \$1.9 million in annual costs
- Developed batch to load information from the data pipeline into the data lake for analysis and usage by 500+ engineers
- Validated published session metrics by developing audit bots to visit business pages and designing unit and integration tests
- Tools/Technologies: Scala, Apache Flink, Apache Kafka, Makefile, Git

Northrop Grumman

McLean, VA

Cyber Analytics Intern

June 2018 – September 2018

- Designed dependency parsing algorithm to detect malicious indicators from cyber intelligence reports with a 70% precision rate
- Trained collocation (n-gram) algorithm to form semantic relations in unstructured text, improving classification by 5%
- Calculated similarity scores between reports and user text input through mapping documents to vectors for 20,000+ documents
- Tools/Technologies: Python, Gensim Doc2Vec, NLTK, spaCy, BeautifulSoup, Git

Main-Dempster Mile (MDM)

Evanston, IL

Non-Profit Consultant

September 2017 – December 2017

- Strategized targeted advertising campaign that increased Northwestern student visits to the MDM shopping district by 50%
- Led team of 5 students in analyzing data on consumer behavior for the Executive Director to present to the Evanston government
- Researched, designed, and delivered marketing strategies that resulted in a 10% increase in topline revenue stream

LEADERSHIP & EXTRACURRICULARS

Serif.nu

Evanston, IL

Front-end Developer

April 2019 – Present

- Contributed to a student-designed course registration website utilized by 7000+ (85%) undergraduates every term
- Developed third version of tool using JavaScript (React) along with 4 other team members

xterns.com

Evanston, IL

Co-Founder

November 2018 – Present

- Developed a platform design to connect diverse, talented students from across the country to top employers through externships
- Built the frontend and backend of a fully responsive website using HTML/CSS, Bootstrap, jQuery, Python (Flask, SQLAlchemy)

Arch Capital

Evanston, IL

Technology Developer

October 2017 – December 2018

- Created a website in HTML, CSS, and JS to improve client relations for a student group, increasing monthly traffic by 25%
- Designed mobile application to track muscle usage and workout routines for a wearable technology start-up for autistic youth

Twitter First Flight

San Francisco, CA

Software Engineering Participant

October 2018 – October 2018

- Selected as one of 30 out of 650 applicants to participate in technical workshops focused on developing computer science abilities
- Interacted with Twitter employees through networking lunches and workshops to explore the field of software engineering

D.E. Shaw Nexus Fellowship

New York, NY

Fellow

August 2018 – August 2018

- Recruited as one of 25 paid fellows to attend a three-day training in quantitative and fundamental investing techniques
- Attended 10+ hours of educational workshops on mathematical modelling, statistical computation, and behavioral finance

HONORS & INTERESTS

Honors: Northwestern Mathematics Award, National Merit Scholar, AT&T OASIS Scholar, Nielsen Case Competition 3rd Place

Interests: Tennis, Fencing, BTS, Photography, Happiness Club, Women in Computing, Rewrite the Code