**Amy Chen**

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EDUCATION

**Northwestern University,** Weinberg College of Arts and SciencesEvanston, IL

*Bachelor of Arts in Statistics, Economics, and Mathematical Methods in the Social Sciences* Expected June 2020

* ACT: 35/36, Dean’s List: 8/8 Quarters
* Relevant Courses: Data Science, Intro to AI, Statistical Computing, Linear Algebra, Multivariable Calculus, Game Theory

**Harvard Business School** Boston, MA

*Summer Venture in Management Program* June 2019 – June 2019

* A selective (~2% acceptance) and rigorous week-long program consisting of 14 MBA cases taught by renowned HBS professors

WORK EXPERIENCE

**BlackRock** San Francisco, CA

*Portfolio Analytics Intern* June 2019 – Present

* Constructed model to classify exchange-traded funds (ETFs) and mutual funds into categories based on their investment styles
* Tools/Technologies: Python, Pandas, NumPy, Scikit-learn, Seaborn, SQL

**Yelp** San Francisco, CA

*Software 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

**Northrop Grumman** McLean, VA

*Cyber 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, Beautiful Soup

PROJECTS & EXTRACURRICULARS

[**Serif.nu**](https://serif.nu/)Evanston, IL

*Front-end Developer*  April 2019 – Present

* Developed a student-designed course registration website utilized by 7000+ (85%) undergraduates every term
* Collaborated on tool using JavaScript (React) along with 4 other team members through weekly sprints

[**xterns.com**](https://www.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

*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

**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 consumer behavior in R for the Executive Director to present to the Evanston government

SKILLS

**Languages / Technologies:** (proficient) Python, R, HTML/CSS, SQL, Git (familiar) JavaScript, Scala, Java