STEPHANIE SHI

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EDUCATION

University of Pennsylvania
The Jerome Fisher Program in Management and Technology
May 2020
GPA: 3.92/4.00
M.S.E. in Computer Science
B.S.E. in Computer Science
B.S. in Economics, The Wharton School (Concentration: Business Analytics)

Relevant Coursework:
Operating Systems
Randomized Algorithms
Machine Learning
Computational Linguistics
Databases
Cryptography

Activities:
P-Classic (high school coding competition) Co-Lead Organizer, WeissLabs (startup incubator) Marketing Committee Head

SKILLS

Languages: Java, Python, OCaml, JavaScript
Frameworks: AWS, Flask, Node.js, React, SQL, Pandas
Software: Adobe Photoshop, Indesign, Illustrator, Sketch

EXPERIENCE

Jane Street Capital, Software Engineer *Aug 2020 – Present*

Jane Street Capital, Software Engineering Intern *May 2019 – Aug 2019*
- Added staging mode and faster instrument loading to the trading positions system.
- Developed OCaml job monitoring web app for the research compute cluster. Features include search filtering, node utilization graphs, automatic log reloading, and server-side caching. Improved logs by adding additional job information and data compression.

Coursera, Software Engineering Intern & Kleiner Perkins Fellow *May 2018 – Aug 2018*
- Built new testing system hosted on Amazon EC2 to enable engineers to test backend Scala microservices in a production environment 80% faster. Drove adoption to 72.7% of backend engineers within 4 weeks of launch. Still in use as of August 2019.
- Scoped out containerizing backend services alongside an Envoy sidecar proxy using AWS ECS.

SoftBank Robotics America, Product Development Intern *May 2017 – Aug 2017*
- Worked on the launch of Promoter, an out-of-the-box marketing software solution on SoftBank Robotics' humanoid robot Pepper. Guided several Fortune 500 clients on creating marketing campaigns on Promoter that best drive user engagement. Designed user interface for new software version using feedback from self-conducted user interviews with clients and marketers.
- Led an engagement campaign that increased engagement with Pepper by 34.6%.
- Designed user interface for new software version using feedback from self-conducted user interviews with clients and marketers.

University of Pennsylvania, CIS 160 Head Teaching Assistant *Dec 2016 – Dec 2019*
- Managed staff of 40 TAs and four committees. Worked with professor to ensure homework, exam, solutions, and rubric quality.
- Helped students deepen understanding of proof-based discrete mathematics through office hours and 15+ student recitations.

Hack4Impact, Education Chair, Product Manager, Software Engineer *Sept 2016 – May 2020*
- Designed and developed high-impact open source software solutions for nonprofit organizations in teams with other students. Other responsibilities included consulting with nonprofits to source projects, organizing internal technical and diversity workshops, leading new initiatives in the pursuit of technology and social impact, and recruiting new members.
- Spearheaded the development and recruitment of a new business development team to further the growth of the organization.

PROJECTS

Independent Study *Feb 2020 – Aug 2020*
- Researching community detection algorithms through pairwise queries with Prof. Sanjeev Khanna and Hana Pearlman through the Google Explore CSResearch program.

Analyzing Bias in Word Embeddings
github.com/stephanieyshi/word-embeddings-bias
- Used the approach in Bolukbasi et al., 2016 to remove gender bias in Google News word2vec and GloVe word embeddings. Explored political bias by training word embeddings on data from biased news sources and used the same algorithm to remove political bias from these embeddings.
- Top group research project in computational linguistics class, Spring 2019.

Maps4All
github.com/hack4impact/maps4all
- Product manager and developer for the launch of a customizable open-source Flask application that enables organizations to upload location-based resources and display the resources on a map using the Google Maps API. Decided future product roadmap, prioritized features, reviewed pull requests, and interfaced with clients.
- Designed user interface. Implemented ratings and reviews feature.