EMILY LING

PERMANENT ADDRESS
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EDUCATION

9/2014 - 6/2019   **Stanford University,** Stanford, CA
- Received BS degree in Computer Science (Information track), conferred 6/2018
- Received MS degree in Computer Science (Artificial Intelligence track), conferred 6/2019
- Coursework includes Artificial Intelligence (CS221), Machine Learning (CS229), Network Analysis (CS224W), NLP with Deep Learning (CS224N), Massive Data Sets (CS246), Computer Networking (CS144), Cryptography (CS255), Advanced Cryptography (CS355), Computer Vision (CS231N)
- BS GPA: 3.91/4.0, MS GPA: 3.963/4.0

EXPERIENCE

9/2019 - Present   **Software Engineer** | Flatiron Health | New York City, NY
- Part of an cross-disciplinary team working on treatment execution workflows in OncoEMR
- Major projects include revamping dose calculation workflows to be safer and more accurate, updating e-prescription messaging standards, and security and stability improvements.

1/2018 - 6/2019   **Teaching Assistant** | Stanford University Computer Science Department | Stanford, CA
- Hold office hours, answer questions, teach a lab, grade assignments/exams, and assist with course
- CS224N (Natural Language Processing with Deep Learning) in Winter 2018
- CS107 (Computer Organization & Systems) in Spring and Fall 2018, Winter and Spring 2019

6/2018 - 8/2018   **Software Engineering Intern** | Verily Life Sciences | South San Francisco, CA
- Intern on the Project Baseline team, building infrastructure to support a clinical study
- Implemented the ability to generate dynamic surveys for users based on real-time, personal data

6/2017 - 9/2017   **Software Engineering Intern** | Khan Academy | Mountain View, CA
- Backend intern on the Coached Learning team, focusing on teachers and classrooms
- Proposed, planned, and implemented a project to whitelist GraphQL queries across web app and mobile, in order to improve security and reduce client-server bandwidth

6/2016 - 8/2016   **Software Engineering Intern** | Bloomberg LP | New York City, NY
- Intern on the Internal Systems NLP team, developing a new full-stack application to filter and subscribe to incoming customer service tickets, using C++, JavaScript, Python

6/2015 - 9/2015   **WhatsApp Software Engineering Intern** | Facebook | Mountain View, CA
- Intern on the Tools Team, automating Android, iOS, and Windows phone apps in 22+ languages using Python, Javascript, Java, C#

4/2015 - 8/2017   **CS 106 Section Leader** | Stanford University Computer Science Department | Stanford, CA
- Served as a TA for Stanford University's introductory computer science classes (Java, C++)
- Taught weekly discussion sections of 8 to 12 students
- Assisted students 1:1 in office hours, graded homework assignments and exams

AWARDS & PROJECTS

1-3/2019   **Rewire:** An interactive game designed to promote a growth mindset by teaching about the science of neuroplasticity. Published at IDC 2019.

11-12/2017   **RainbowNet:** Automatic colorization of black-and-white images using a feed-forward CNN.

10-12/2017   **Build the Internet:** Implemented basic components of the Internet, including a TCP-compliant transport layer, router, and NAT. Allowed for simple communication between machines.

3/2017   **Named Entity Recognition and Compositional Morphology in Chinese:** Used bidirectional, multi-layer RNN's implemented in TensorFlow, using varying combinations of token, character, and radical-level features to label entities in Chinese text

12/2016   **Urban Spiderwebs:** Comparative network analysis and traffic simulation in 25 global cities to detect and model traffic congestion patterns in varying urban road network structures

10/2015   **President's Award:** Recipient of the President's Award, honoring students in the top 3% of the class

SKILLS

Technical: Python, C, Java, C++, VB/C#, JavaScript, HTML/CSS.
Languages: Fluent in English, Chinese. Conversational French.