Sophie Mori

WORK EXPERIENCE

Jane Street Capital　　　　Software Engineering Intern | Summer 2019
- Developed a post-trade tool to automate processes and improved usability for a custom permissions system, using OCaml

Khan Academy　　　　Software Engineering Intern | Summers 2017, 2018
- Designed dev-facing APIs and implemented React components for a new company-wide UI library, focusing on usability and accessibility
- Repo at https://github.com/Khan/wonder-blocks
- Worked with team on homepage, topic pages, and partnership branding

Basis Technology　　　　Software Engineering Co-op | Fall 2016
- Implemented community feature requests and fixed recurring issues for an open source digital forensics tool and its graphical interface

RESEARCH

MIT Computer Science and Artificial Intelligence Laboratory
Software Design Group　　　　Fall 2018 – Spring 2019
- Designed and implemented a spreadsheet-based interface editor to allow non-programmer users to develop custom data-centric web applications

InfoLab Group　　　　Spring 2015 – Spring 2016
- Helped build a database of ESL sentences annotated for parts of speech and dependency grammar relations, published under UD Treebanks
- Paper at https://arxiv.org/abs/1605.04278

Singapore University of Technology and Design
NLP and Big Data Research Group　　　　Summer 2016
- Worked with word embeddings, dependency path encodings, and LSTM neural nets to replicate a study on hypernym relation detection

LEADERSHIP AND ACTIVITIES

MIT EECS Course Staff　　　　Teaching / Lab Assistant | Various semesters
- Software Construction: taught software concepts and mentored projects
- Introduction to EECS: assisted with programming and circuit design labs
- Mathematics for CS: coached in-class group problem solving sessions

Extracurricular Teaching
- MIT Educational Studies Program: various teaching and directing roles for educational programs reaching thousands of local students yearly
- Almaty and Astana, Kazakhstan: designed and taught workshops in cryptography, linguistics, and digital circuits
- Monterrey, Mexico: led a computational thinking workshop for local girls
- Catalonia, Spain: taught programming, calculus, physics at a high school

Next Haunt　　　　Lead Puzzle Designer | Fall 2015
- Led the puzzle development team for a student-built haunted escape room, providing a fun spooky experience to over 300 students

EDUCATION

Massachusetts Institute of Technology
Masters of Engineering
Graduation: June 2020

B.S. in Computer Science
B.S. in Linguistics
Graduation: June 2019
GPA: 5/5

AIT Budapest
C.S. Study Abroad
Budapest, Hungary
Spring 2017
Best student award

COURSEWORK

Airport Systems
Algorithms I and II
Applied Cryptography
Artificial Intelligence
Compilers
Comp. Psycholinguistics
Computer Systems
Computer Security
Database Systems
Machine Learning
Program Analysis
Software Construction
Theory of Computation
User Interface Design

SKILLS

Technical
Java, Python, OCaml, HTML, CSS, JavaScript, React, Android, Git

LINKS

Github: /wishdasher
LinkedIn: /in/ksmori
Teaching:
https://esp.mit.edu/teach/teachers/ksmori/bio.html