

# 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

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

Multi-modal interfaces

Software construction

Symbolic systems

Theory of computation

User interface design

## SKILLS

### Technical

Java, Python, OCaml,

HTML, CSS, JavaScript,

React, Android, Git

### Language

English (native level)

Spanish (intermediate)

Mandarin (conversational)

## LINKS

Github: /wishdasher

LinkedIn: /in/ksmori

Teaching:

<https://esp.mit.edu/teach/>

[teachers/ksmori/bio.html](https://teachers/ksmori/bio.html)