

WEBSITE

mlai.us

GITHUB

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Maria Lai

Harvard College

Cambridge, MA

Relevant Coursework: Abstraction & Design in Computation, Interactive Visualization

Herbert Hoover High School

Des Moines, IA

Graduation Class: 2017

Computer Science & Neurobiology

Graduation Class: 2013

Ranked 1 of 280

COURSE ASSISTANT

Harvard Paulson SEAS

Sept. 2016 - present

SOFTWARE ENGINEERING INTERN

Vettery

Jun. 2016 - Aug. 2016

TERM-TIME PROJECTS DIRECTOR

Harvard Developers for
Development

Feb. 2014 - Dec. 2014

MINI ML INTERPRETER

Functional Programming

AMERICAN TIME USE

Interactive D3 Visualizations

CO-EDITOR-IN-CHIEF

The Harvard Undergraduate
Research Journal (thurj)

Sept. 2013 - May 2016

WRITER, ILLUSTRATOR, OUTREACH

Harvard Stories for Orphans

Sept. 2015 - May 2016

PROGRAMMING CO-DIRECTOR

SIEPSI International Exchange
Program for Social Innovation

Sept. 2014 - Jan. 2015

LANGUAGES

ENGLISH

VIETNAMESE

JAPANESE (elementary)

EXPERIENCE

Graded homeworks and exams for Comp Sci 171: Interactive Data Visualization.

Maintained and enhanced codebase by writing patches to bugs and extending features. Collaborated with other engineers on large projects such as revamping the admin view of the candidate profile. Worked with CakePHP, Angular.js, SQL, jQuery, Jasmine, Protractor, Git.

Coordinated all aspects of 11 semester-long tech project collaborations between Harvard students and social impact organizations, such as Peace Corps, Partners in Health, and CrisisMappers, including building relationships with nonprofits, recruiting students to work on projects, and project management. Spring '14: 4 teams, 15 fellows. Fall '14: 7 teams, 27 fellows, 15 mentors & partners. Organized a projects showcase at the end of each term.

PROJECTS

Created lexically and dynamically scoped interpreters using OCaml that can interpret abstract syntax trees into operations.

Created interactive data visualizations of how Americans use their time.
<http://ustimeuse.github.io>

LEADERSHIP

- Managed an executive board of 9 people and an organization of 60 people. Strategized plans for production and growth.
- Managed all aspects of submissions and peer review: 6 editors, 25 reviewers, 26 submissions, manuscript selection, revisions, quality check. Taught peer review to new members.

Authored, illustrated, and produced a personalized picture book for an orphaned child.
Built relationships with orphanages.

Coordinated all aspects of the programming of the 5-day program for 27 participants (Harvard + international students): set the theme, developed the schedule, invited and coordinated 25 speakers and workshop leaders, created the programming booklet, supervised on-day operations.

PROFESSIONAL SKILLS

PHOTOSHOP

ILLUSTRATOR

INDESIGN

EXL, PPT

JAVA

OCAML

JavaScript (D3.js, Angular.js, jQuery)

PHP, SQL, Databases