

E. LILY SEROPIAN

*I want to use my
coding powers to do
good in the world.*

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EDUCATION

Massachusetts Institute of Technology (MIT) • Cambridge, MA • GPA 4.8/5.0

June 2015 candidate for a Bachelor of Science Degree in Computer Science with a Spanish concentration.

Relevant Coursework: AI, Software Design, Algorithms, Computer System Design, Machine Learning, Digital Architecture, Computational Biology, Discrete Mathematics, Probability, Linear Algebra, Presenting Technical Material.

SKILLS

Programming/markup languages: Java, Python (including NumPy and SciPy), JavaScript (including node.js, Angular, TypeScript, and Google Closure), HTML, CSS, LaTeX.

Technologies: Git, Unit Testing Frameworks (TDD and BDD), Eclipse, WebStorm, Sublime, Vim, Linux, Mac, Windows.

Human languages: Spanish - conversational, French - conversational, Japanese - basic.

Interests: knitting/crocheting, music, language, scifi, teaching, women's and gender studies, the art of rationality.

WORK EXPERIENCE

Massachusetts Institute of Technology • Teacher • Fall 2014, Spring 2013, and Spring 2012 in Cambridge, MA

Taught 2 recitations of 8 students each for a hands-on class on giving effective technical oral presentations. (2014)

Held office/lab hours for a software development class taught in Java. Graded homework and exams. (2013)

Guided students through Python and electronics labs in Introduction to EECS. Tested labs for correctness and clarity. (2012)

B-Line Medical • Intern • Summer 2014 in Washington, DC

Created question builder site using reusable angular.js components. Wrote node.js backend to hook site up to existing SQL databases with sqlite. Managed build configuration with grunt.js.

Rest Devices • Intern • January 2014 in Boston, MA

Worked extensively on node.js server for a smart baby monitor. Implemented firmware updates for monitor, internal dashboard of connected devices, and live streaming of audio from monitor to iPhone app.

Google • Intern • Summer through Winter 2013 in Cambridge, MA

Developed web tools that provide a user-friendly interface for creating, viewing, and abstracting XML queries to a flight search engine, for both internal and external usage.

Continued into the Fall as a part-time developer. Used machine learning techniques to cluster custom XML flight search queries for analytics purposes. Maintained and updated suite of existing tools.

PROJECTS

Data Center Virtual Machine Placement System Design • Group Project • Spring 2014

Designed a system for placing VMs in a dynamic unknown data center in order to reduce cost and job completion time.

CPU Simulator • Individual Project • Fall 2012

Simulated a processor in its entirety: started with logic gates and ended with ability to execute assembly code.

ABC Music Player • Group Project • November 2012

Designed and implemented the Abstract Syntax Tree for representing and playing a piece of music.