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E. LILY SEROPIAN

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EDUCATION

- Massachusetts Institute of Technology (MIT) – *Cambridge, MA* GPA 4.7/5.0
  - June 2015 candidate for Bachelor of Science Degree in Computer Science.
  - Software Design, Algorithms, Computer Systems, Machine Learning, Digital Architecture, Computational Biology, Discrete Mathematics, Probability.

SKILLS

- Programming/markup languages: Java, Python, JavaScript, node.js, Google Closure, LaTeX, HTML, CSS, Soy.
- Technologies: Git, JUnit, PyUnit, JSUnit, NumPy, SciPy, Eclipse, Vim, Idle, BlueJ, Linux, Mac, Windows.
- Human languages: Spanish - conversational, French - basic.
- Interests: knitting/crocheting, music, language, scifi, teaching, women's and gender studies, the art of rationality.

WORK EXPERIENCE

- Rest Devices - *Boston, MA* - Intern January 2014
  - 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 - *Cambridge, MA* - Sophomore Engineering Practicum Intern Summer 2013 - Winter 2013
  - 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.
  - Invited to continue into the Fall Semester 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.
  - Technologies employed: JavaScript, Closure (including custom components), HTML, CSS, Soy, Python.
- Massachusetts Institute of Technology - *Cambridge, MA* - Lab Assistant Spring 2013, Spring 2012
  - Guided students through homework and exam preparation during office hours for a software development class in Java. Graded homework and exams.
  - Guided students through Python and electronics design labs in Introduction to EECS while taking the class through the Advanced Lab Assistant Program. Tested the labs for correctness and clarity.
- iD Tech Camps – *Fairfield, CT* - Instructor Summer 2012
  - Taught 5 week-long introductory programming courses in Java to students ages 12-17, 8 students per week.
  - Covered fundamentals, object-oriented programming, and graphics (swing and 2D).

PROJECTS

- Smart Folder System Design - Individual Project Spring 2014
  - Designed (but did not implement) a UNIX operating system extension to provide Smart Folder functionality through virtual directories of symbolic links.
- RNA Folding Algorithm - Partner Project Fall 2013
  - Designed and implemented a technique to improve the theoretical runtime of an existing dynamic programming solution to computing RNA secondary structure. Partner project involving research paper and formal presentation. Results and code available at github.com/lilyseropian/rna-folding (Python).
- CPU Simulator - Individual Project Fall 2012
  - Simulated a processor from the level of logic gates to the ability to execute assembly code (JSim).
- Live Collaborative Text Editor - Group Project December 2012
  - Designed and implemented the UI for a collaborative text editor; debugged group code (Java).
- ABC Music Player - Group Project November 2012
  - Designed and implemented the Abstract Syntax Tree for representing and playing a piece of music (Java).