

NADINE SHEN MOLESKY

COMPUTER SCIENTIST

--nadineshenm@gmail.com--

EDUCATION

Tufts University **B.S. in Computer Science & Biology**
(Expected May 2017)

Medford, MA Dean's List
Class of 2017

Related Coursework:

Web Programming (in progress)

Machine Structure & Assembly Language Programming

Data Structures

Human-Computer Interaction

Computational Theory (in progress)

PROJECTS

(C)

UNIVERSAL MACHINE EMULATOR

- Implemented a Universal Machine Emulator in C that parses and executes 14 unique machine instructions
- Emulated a 32-bit machine and segmented memory architecture on 64-bit hardware
- Optimized code to run as fast as possible on a large benchmark

(Assembly)

REVERSE POLISH NOTATION CALCULATOR

- Implemented a calculator using the 14-instruction assembly language created for the Universal Machine Emulator

(C)

IMAGE ROTATOR & COMPRESSOR

- Implemented an image rotator and a lossy image compressor that transforms a PPM format image into a 32-bit word

LANGUAGES

C++/C, HTML5/CSS, Assembly