

# NADINE SHEN MOLESKY

COMPUTER SCIENTIST

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## EDUCATION

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

**Medford, MA**      GPA: 3.59, 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, Assembly