Inbar Fried

672 Meadow Lane, Los Altos, CA, 94022
inbar.fried07@gmail.com, (650)-796-9990

EDUCATION

Tufts University, Medford, Mass.
Bachelor of Arts in Computer Science, Expected Dec 2013
Major GPA: 3.70

PROGRAMMING LANGUAGES AND SKILLS

Proficient in C, C++, Machine Assembly x86, Unix/Linux/Git/Macintosh Terminals
Working-knowledge of Python, Javascript, HTML5, CSS, Scheme, ML

RELEVANT COURSEWORK AND PROJECTS

Discrete Mathematics, Data Structures, Machine Architecture and Assembly
Programming, Game Development, Computational Theory, Algorithms, Operating
Systems

Universal Virtual Machine (Coded in C)
- Designed and implemented an eight-register virtual machine that performed fourteen specified instructions, storing information as 32-bit words in a self-implemented data structure.

Reverse Polish Notation Calculator (Coded in Machine Assembly x86)
- Designed and implemented a calculator that ran using a previously self implemented macro-assembler and universal machine.

Image Compressor/Decompressor (Coded in C)
- Implemented a bitpacking library that packed and unpacked signed and unsigned integers to and from 64-bit words.
- Used the bitpack library to compress and decompress PPM images by transforming color spaces.

Search Engine (Coded in C++)
- Stored a given music database into a data structure and then manipulated the structure to perform specified searches on the database.

Black Edge Remover for Scanned Documents (Coded in C)
- Designed an interface that supported a two dimensional array of bits and then manipulated PBM files using bit values to remove black edge bits.

WORK EXPERIENCE

Tufts University Computer Science Department, Medford, Mass.
(September 2012 – December 2012)
Teaching Assistant
- Teaching assistant for students in Machine Architecture and Assembly Programming course, assisting with projects

Stanford University Roger Kornberg Lab, Stanford, Calif.
(June 2009 – July 2009)
Research Assistant
- Sub-cloned DNA samples for expression and purification of proteins

ACTIVITIES

Tufts University Men's Swimming and Diving (2010 – Present)
Tufts University Water Polo Co-captain (2010 – Present)

LANGUAGES

Fluent in Hebrew