FRANCESCA CAIAZZO

(804)-894-1496 – francesca.caiazzo@tufts.edu – http://fcaiazzo.github.io – 84 Waterman Place, Saint Louis MO

EDUCATION

TUFTS UNIVERSITY (Medford, MA)

Bachelor of Science, May 2017

Major: Computer Science

GPA: 3.46 | Dean's List 5/6 semesters

RELEVANT COURSEWORK

CORE COMPUTER SCIENCE COURSEWORK

Data Structures, Machine Structure and Assembly-Language Programming, Discrete Mathematics, Programming Languages, Algorithms, Human-Computer Interactions, Machine Learning, Web Programming, Computation Theory, and Computer System Security.

EXPERIENCE

SOFTWARE DEVELOPMENT INTERN: Galatea Associates (Somerville, MA), 2016

Learned the fundamentals of the investment banking industry and worked closely with a team of full-time developers to improve a custodial banking system for a major Wall Street investment bank.

Designed, developed, and tested entire components of the system using a mainframe based language called Natural.

ASSISTANT HEAD COACH: Central Rock Gym (Watertown, MA), 2014 – present

Coaching and instructing a nationally renowned youth rock climbing team in the mental and technical aspects of indoor, competitive climbing.

Organizing the training of a youth team, cultivating personal growth, and facilitating day-to-day improvement in the sport.

TEACHING ASSISTANT: Tufts Computer Science Department (Medford, MA), 2015

Facilitated understanding and improvement in introductory programming skills, and helped to develop good programming habits and style.

PROJECTS

LOSSY IMAGE COMPRESSOR AND DECOMPRESSOR

Implemented a ppm image compression and decompression algorithm in C.

Packed 2x2 RGB pixel blocks into 32-bit words by designing modular interfaces for each stage of compression.

IMAGE ROTATION

Designed and implemented an interface for representing polymorphic, unboxed blocked arrays in C.

Implemented an image rotation interface using the above blocked interface to optimize runtime by increasing spatial locality within the cache.

SKILLS

PROGRAMMING: Linux/Unix Systems, C, C++, HTML, CSS, JavaScript.

LEADERSHIP

TUFTS UNIVERSITY COMPETITIVE CLIMBING TEAM: Captain, 2015 – 2016