FRANCESCA CAIAZZO

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EDUCATION

TUFTS UNIVERSITY (Medford, MA)

Bachelor of Science, May 2017

Major: Computer Science

GPA: 3.37 | Dean's List 3/4 semesters

RELEVANT COURSEWORK

CORE COMPUTER SCIENCE COURSEWORK

Data Structures, Machine Structure and Assembly-Language Programming, Discrete Mathematics, Programming Languages, and Web Programming.

EXPERIENCE

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

Responsible for facilitating understanding and improvement in introductory programming skills, as well as cultivating good programming habits and style.

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

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

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

ASSISTANT COACH: Upper Limits Inc. (Saint Louis, MO), 2014

Coached and instructed a youth rock climbing team in the technical aspects of indoor, competitive rock climbing.

SHIFT MANAGER: Café Ventana (Saint Louis, MO), 2013 – 2014

Managed a floor staff of 2-4 employees and maintained an accurate cash drawer at all times, while simultaneously keeping up with the fast-paced customer service demands of a coffee shop environment.

Responsible for filing end-of-day-reports, calculating daily deposits and employee tips, managing the contents of the safe, and closing or opening the business each day.

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: Assembly, C, C++, Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript.

LEADERSHIP

TUFTS UNIVERSITY COMPETITIVE CLIMBING TEAM: Captain, 2013 – 2015