Matt Asnes

matthew.asnes@tufts.edu \(\phi\) github.com/forsooth \(\phi\) linkedin.com/in/masnes (339) 832-0708 \(\phi\) 15 Winter Street, Kingston, MA, 02364

EDUCATION

Tufts University, Medford, MA — Class of 2018

Expected May 2018

Pursuing Bachelor of Science (triple major) in Computer Science, Physics, & Mathematics, GPA: 3.40/4.00

Silver Lake Regional High School, Kingston, MA — Class of 2014

May 20

Graduated Valedictorian of Silver Lake Regional High School Class of 2014 (Rank 1/271), GPA: 4.96/5.00

EXPERIENCE

State Street

Summer 2016 – Present (11 months)

Technical Intern, SSGA Infrastructure/Architecture Team

Boston, MA

- · Upgraded the companys infrastructure, servers, and portfolio of applications to be SHA-2 compliant
- · Assisted with lifecycle application upgrade of servers from JBoss 5 to JBoss 7
- · Gained significant experience with UNIX, bash scripting, Python, and Java EE
- · Worked full time Summer 2016, part time throughout the past two semesters

Tufts CS Teaching Assistant

January – May 2016, January – May 2017 (10 months)

Machine Structure & Assembly Language Programming

Medford, MA

- · Helped students with problems of software engineering and machine structure in C and Intel x86-64 assembly
- · Held office hours multiple times per week, helping students to debug and architect solutions
- · Graded documentation and homework assignments to guide students in development of their projects

RELEVANT COURSEWORK

Computer Science

In-Major GPA: 3.62

- · Completed: Advanced Computer Architecture & Machine Learning & Web Engineering & Special Topics in Algorithms and Graph Theory & Machine Structure & Assembly Language Programming & Game Development & Computational Complexity Theory & Object Oriented Programming for GUIs & Programming Languages & Algorithms & Data Structures
- \cdot Expected Fall 2017: Operating Systems \diamond Computer Vision \diamond Computer Engineering

Physics In-Major GPA: 3.50

 \cdot Completed: Quantum Theory I \diamond Quantum Theory II \diamond Physics of Electronics \diamond Electricity & Magnetism \diamond Intermediate Mechanics \diamond Thermal Physics \diamond Solid State Physics \diamond Introduction to Modern Physics

Mathematics In-Major GPA: 3.39

- $\cdot \ \, \text{Completed:} \ \, \textit{Complex Analysis} \diamond \textit{Linear Algebra} \diamond \textit{Discrete Mathematics} \diamond \textit{Multivariable Calculus} \diamond \textit{Calculus} \\ \quad \textit{II} \\$
- · Expected Fall 2017: Real Analysis \diamond Abstract Algebra

RECENT PROJECTS

CardControl Access Control System

Spring 2017

Scalable web application using Angular 2, Django, PostgreSQL, Redis, Varnish, and NGINX running on AWS

- · Devised and implemented an access control system to improve university campus services
- · Collaborated with one team member to create a robust and scalable modern web application
- · Wrote and tested frontend, backend, and architecture in a development and production environment

Geometric Interpretation of BSTs

Spring 2017

A suite of analysis tools for the 2D geometric interpretation of BSTs

- · Implemented tools to track accesses in six BST algorithms
- · Generated animations in PostScript using numpy, GraphViz, and matplotlib

SKILLS

Languages (Proficient)
Languages (Some Experience)
Libraries & Frameworks

C, C++, Python, bash, Java, JavaScript/HTML5/CSS3, LATEX, SML Mathematica, PostgreSQL, Scheme, MATLAB, Julia, Visual Basic Django, Tastypie, Three.js, C++ STL, Swing/awt, Phaser, CImg, numpy, matplotlib, BeautifulSoup, Angular 2, GraphViz Sublime Text, vim/vi, UNIX, GNU/Linux, git, GitHub, CUDA, i3, AWS, Cygwin, Unity, Arduino, Photoshop, Illustrator

Tools