

Matt Asnes

matthew.asnes@tufts.edu \diamond github.com/forsooth \diamond [linkedin.com/in/masnes](https://www.linkedin.com/in/masnes)

(339) 832-0708 \diamond 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 2014

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

Physics

In-Major GPA: 3.50

- 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

- Completed: *Complex Analysis* \diamond *Linear Algebra* \diamond *Discrete Mathematics* \diamond *Multivariable Calculus* \diamond *Calculus 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

Tools

C, C++, Python, bash, Java, JavaScript/HTML5/CSS3, L^AT_EX, 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