Matt Asnes

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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* ◇ *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*
- Expected Fall 2017: *Operating Systems* ◇ *Computer Vision* ◇ *Computer Engineering*

Physics In-Major GPA: 3.50

- Completed: *Quantum Theory I* ◇ *Quantum Theory II* ◇ *Physics of Electronics* ◇ *Electricity & Magnetism* ◇ *Intermediate Mechanics* ◇ *Thermal Physics* ◇ *Solid State Physics* ◇ *Introduction to Modern Physics*

Mathematics In-Major GPA: 3.39

- Completed: *Complex Analysis* ◇ *Linear Algebra* ◇ *Discrete Mathematics* ◇ *Multivariable Calculus* ◇ *Calculus II*
- Expected Fall 2017: *Real Analysis* ◇ *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 six BST algorithms and tools to track them, in Python
- Generated animations in PostScript using numpy, GraphViz, and matplotlib

SKILLS

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