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 (class size 271), GPA: 4.96/5.00

EXPERIENCE

State Street　　　　　　　　　　　　　　　　　　　　　　　Summer 2016–Present (2 years)
DevOps Intern, SSGA Infrastructure/Architecture Team　　　　　　　　　　　　　*Boston, MA*
· Worked with one mentor to initiate push for Docker containerization platform
· Assisted with various lifecycle upgrade projects involving JBoss, WebLogic, Apache, Exadata etc.
· Gained significant experience with UNIX (Linux, Solaris), bash shell scripting, Python, and Java EE
· Worked full time during summers and winters, part time throughout the school year

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
· Helped students in labs multiple times per week to debug low-level programs and architect solutions
· Graded documentation and homework assignments to guide students in development of their projects

RELEVANT COURSEWORK

Computer Science　　　　　　　　　　　　　　　　　　　　　　　In-Major GPA: 3.48
· 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 ⋄ Operating Systems ⋄ Computer Vision ⋄ Computational Geometry*

Physics　　　　　　　　　　　　　　　　　　　　　　　　　　　In-Major GPA: 3.52
· 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 ⋄ Calculus III (Multivariable) ⋄ Calculus II ⋄ Real Analysis I ⋄ Abstract Algebra I*

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, JS/HTML5/CSS3, LaTeX, Standard ML
Languages (Some Experience)	Scheme, Mathematica, PostgreSQL, Julia, Visual Basic
Libraries & Frameworks	Django, Tastypie, OpenCV, Three.js, C++ STL, Swing/awt, Phaser, numpy, matplotlib, CImg, BeautifulSoup, Angular 2, GraphViz
Tools	Sublime Text 3, vim/vi, UNIX & GNU/Linux, git, GitHub, CUDA, i3, AWS, RHEL, NGINX, Varnish, uWSGI, Cygwin, Unity, Arduino, Adobe Photoshop, Adobe Illustrator, Sony Vegas