Matt Asnes

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EDUCATION

Tufts University, Medford, MA — Class of 2018 *Graduated May 2018*
Completed Bachelor of Science (triple major) in Computer Science, Physics, & Mathematics, GPA: 3.45/4.00

Silver Lake Regional High School, Kingston, MA — Class of 2014 *Graduated May 2014*
Graduated Valedictorian of Silver Lake Regional High School Class of 2014 (class size 271), GPA: 4.96/5.00

EXPERIENCE

Google August 2018–Present
Software Engineer, Site Reliability Engineer *Mountain View, CA*
· Worked as an SRE on a variety of systems

State Street Global Advisors July 2016–July 2018 (2 years)
DevOps Intern, SSGA Infrastructure/Architecture Team *Boston, MA*
· Developed internal Elasticsearch log monitoring & visualization on the ELK stack
· Worked with one mentor to roll out Docker containerization platform to company
· Completed three significant lifecycle upgrade projects involving JBoss, WebLogic, Apache, and more
· Wrote significant code in bash and Python, working with UNIX (Linux, Solaris) and Java EE
· Maintained enterprise infrastructure serving hundreds of applications
· Worked full time during summers and winters, part time throughout the school years

RELEVANT COURSEWORK

Computer Science In-Major GPA: 3.55
· *Advanced Computer Architecture ◇ Machine Learning ◇ Web Engineering ◇ Special Topics in Algorithms and Graph Theory ◇ Computer Graphics ◇ Machine Structure & Assembly Language Programming ◇ Game Development ◇ Computational Complexity Theory ◇ Object Oriented Programming for GUIs ◇ Programming Languages ◇ Algorithms ◇ Data Structures ◇ Information Theory ◇ Operating Systems ◇ Computational Geometry*

Physics In-Major GPA: 3.52
· *Quantum Theory I & II ◇ Physics of Electronics ◇ Electricity & Magnetism ◇ Intermediate Mechanics ◇ Thermal Physics ◇ Solid State Physics ◇ Introduction to Modern Physics ◇ Advanced Experimental Physics*

Mathematics In-Major GPA: 3.20
· *Complex Analysis ◇ Linear Algebra ◇ Discrete Mathematics ◇ Calculus II & III (Multivariable) ◇ Abstract Algebra I ◇ Real Analysis I & II*

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 along with a toolkit to track them, in Python, based on cutting-edge research
· Generated animations in PostScript using numpy, GraphViz, and matplotlib with a novel approach to the problem

SKILLS

Languages (Experienced)	C, C++, Python, bash, Java, JavaScript, HTML5/CSS3, LaTeX
Languages (Proficient)	Mathematica, Scheme, ML, PostgreSQL, Julia, Rust, Haskell
Libraries & Frameworks	Django, Tastypie, OpenCV, Three.js, C++ STL, Swing/awt, Phaser, numpy, matplotlib, CImg, BeautifulSoup, Angular 2, GraphViz, OpenGL
Tools	Sublime Text 3, vim/vi, UNIX & GNU/Linux, git, GitHub, CUDA, i3, AWS, RHEL, NGINX, Varnish, uWSGI, ElasticSearch/ELK, Cygwin, Unity, docker, Arduino, Adobe Photoshop & Illustrator, Sony Vegas, Microsoft Office