

Benjamin Johnson

CONTACT INFORMATION	Harvey Mudd College 340 East Foothill Blvd Claremont, CA 91711	OpenPGP Fingerprint 429C 43B8 94F7 67B4 D167 D46C E50C F045 9621 433F	+1 347 762 6467 mangorune@gmail.com linkedin.com/in/mangorune
EDUCATION	Harvey Mudd College, Claremont, California Physics Major		Expected Graduation: May 2016
	SELECTED COURSEWORK		
	Data Structures & Program Dev.	Discrete Mathematics	Theoretical Mechanics
	Computational Biology	Intermediate Linear Algebra	Quantum Mechanics
	Adv. Topics in Algorithms	Mathematical Analysis I	Quantum Information
SOFTWARE SKILLS	Proficient: \LaTeX , Python, C/C++, Java. Familiar: *nix Shell Scripting, Mathematica, IGOR Pro, MATLAB, HTML.		
WORK EXPERIENCE	Software Engineering Intern Google, Mountain View, California Worked on the web rendering pipeline within the Knowledge: Search Infrastructure group. <ul style="list-style-type: none">Wrote the foundation of a new load-management framework for all back-end web rendering.		May 2014 – August 2014
	Computer Science Grader and Tutor Harvey Mudd College, Claremont, California		September 2012 – December 2013
	Technical Intern, Level 3 Pacific Northwest National Laboratory, Richland, Washington Worked on social media analytics and algorithm development in the Knowledge Discovery and Informatics group (kdi.pnnl.gov). Sponsored by the National Security Internship Program (science-ed.pnnl.gov/nsip). <ul style="list-style-type: none">Rebuilt corrupt 12 TiB document index from 83 TiB raw data store.Developed flexible load balancer for social media search framework running on a SLURM cluster.		May 2013 – August 2013
	Student Researcher Harvey Mudd College, Claremont, California Worked independently to set up and operate a real-time system for monitoring local atmospheric levels of light-absorbing, water-soluble organic aerosol. For more information on the Hawkins Lab: hmc.edu/hawkinslab		June 2012 – July 2012
OTHER PROJECT EXPERIENCE	Server Administrator Claremont, California Independent project providing general-purpose shared storage for the school community as well as local mirrors of external resources. Took over from a graduating senior. <ul style="list-style-type: none">Reconfigured Arch Linux installation to utilize recent system improvements like systemd.Extended available storage space from 9 TiB to 36 TiB.Added mirrors of open source project repositories including Arch Linux, CTAN, GNU, Apache, English Wikipedia, and Wikileaks.		May 2012 – Present
	Data Structures and Program Development Harvey Mudd College, Claremont, California Software development course in C++ utilizing Subversion, Valgrind, and GDB. Projects were pair-programmed and included a Risc memory cache simulator, a spell checker, a learning rock-paper-scissors player, refactoring a genetic algorithm, and implementations of BigInt, HashSet, and TreeSet.		January 2012 – May 2012
ACTIVITIES	Windward Intercollegiate Code War Worked in a team of five to implement a solution to an artificial intelligence challenge in 8 hours. Solutions were run against competing teams from other colleges across the country.		January 2012, 2013