

Aaron Bowen

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EDUCATION	Tufts University , Medford, MA Bachelor of Science in Computer Science and Electrical Engineering, 2017 GPA: 3.57, Dean's List (all semesters)	
RELEVANT COURSES	Algorithms, Programming Languages, Computer System Security, Machine Structure and Assembly Language, Data Structures (audited), Linear Systems, Microprocessor Architecture, Digital Electronics, General Electronics, Probabilistic System Analysis	
PROJECTS	Image Compression: Pair-programmed software according to narrow specifications for compressing a PPM image by 75% and decompressing it back to its original format Android App: Collaborated with a team of student entrepreneurs to develop an Android app Binary Bomb: Derived expected input for a complicated program by reading its AMD64 assembly code – incorrect input would explode a theoretical “bomb” Blood Pulse Oximeter: Designed and constructed an infrared pulse oximeter sensor and signal cleansing circuit	
ACTIVITIES	Tufts PolyHack 2015: Built a snakes-and-ladders game that used web sockets to concurrently handle input from multiple users – achieved finalists status in overall hackathon judging JumboCode: Lead development on student team to build a web app pro-bono for a non-profit	
SKILLS	Languages: C, C++, C#, Java, SQL, JavaScript, Python, Perl, CSS, HTML, VBA, AMD64 Assembly Software: Git, Microsoft SQL Server, Vim, PowerShell, SPICE, LabVIEW, MATLAB, SolidWorks Frameworks and Technologies: .Net Framework, AngularJS, NodeJS, ExpressJS, Heroku Hardware: Breadboard wiring, soldering Foreign Languages: Spanish (intermediate), German (intermediate)	
EXPERIENCE	Valetude, LLC. Healthcare Software and Services <i>Software Development Intern</i> <ul style="list-style-type: none">Led several projects to create secure, data-driven internal web tools (C#, JS, SQL, Git)Completed a self-directed data warehousing project using the Extract-Transform-Load methodology (Powershell, C#, Python, SQL, Git)	Wakefield, MA Summer of 2015
	Olin College of Engineering REU <i>Undergraduate Engineering Education Researcher</i> <ul style="list-style-type: none">Researched engineering education by collaborating with professionals in the field and compiling literature reviewsAnalyzed data for human research with a small team of students and mentorsImplemented qualitative and quantitative statistical analysis with R and Excel	Needham, MA Summer of 2014
	Superior Diesel Inc. <i>Summer Intern</i> <ul style="list-style-type: none">Modeled engine housing components with SolidWorks and participated in the assembly and testing of final productCreated Visual Basic macros in Excel for the automation of data formatting in several departments and company-wide inventory organization	Rhineland, WI Summer of 2013