

Aaron Bowen

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EDUCATION	Tufts University , Medford, MA Bachelor of Science in Computer Science and Electrical Engineering, 2017 GPA: 3.52, Dean's List 4 of 4 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	
PROJECTS	Evoqe: Collaborated with a team of student entrepreneurs to develop an Android app for college students (self-taught Android development) Image Compression: Built a program according to narrow specifications to compress a PPM image by 75% and to decompress it back to its original format Turing Emulator: Pair-programmed a universal Turing machine emulator 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	
SKILLS	Languages: C#, C, Java, SQL, JavaScript, CSS, C++, Python, Perl, AMD64 Assembly, Visual Basic Software: Git, Microsoft SQL Server, Vim, PowerShell, LTspice IV (circuit design) Frameworks and Technologies: Nancy web framework, .Net Framework, jQuery Hardware: Breadboard wiring, soldering Foreign Languages: Spanish (intermediate), German (intermediate)	
EXPERIENCE	Valetude, LLC. Healthcare Software and Services <i>Software Development Intern</i>	Wakefield, MA Summer of 2015 <ul style="list-style-type: none">Led several projects to create secure, data-driven web apps for internal company use, with successful completion (C#, JavaScript, SQL, Git)Completed a self-directed database warehousing project involving data extraction from client files, data transformation and staging into a SQL database, and data loading into a production database (Powershell, C#, Python, SQL, Git)
	Olin College of Engineering REU <i>Undergraduate Engineering Education Researcher</i>	Needham, MA Summer of 2014 <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
	Superior Diesel Inc. <i>Summer Intern</i>	Rhineland, WI Summer of 2013 <ul style="list-style-type: none">Learned the basic functions of the Purchasing, Engineering, Production, Sales, and Accounting departments by rotating through eachCreated Visual Basic macros in Excel for the automation of data formatting in several departments and company-wide inventory organization