

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 (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 | |
| 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 Shopify App: Developed a secure, embedded Shopify web app after rapidly learning Ruby and Ruby on Rails web framework 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” | |
| 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: Ruby, Python, JavaScript, Perl, Java, C#, C, C++, SQL, CSS, HTML, AMD64 Assembly Software: Git, Microsoft SQL Server, Vim, PowerShell, LTspice IV (circuit design) Frameworks: .Net Framework, AngularJS, NodeJS, ExpressJS, Ruby on Rails Platforms: Windows, Linux, OS X, Heroku Hardware: Breadboard wiring, soldering Foreign Languages: Spanish (intermediate), German (intermediate) | |
| EXPERIENCE | Valetude, LLC. Healthcare Software and Services Software Development Intern <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 Undergraduate Engineering Education Researcher <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. Summer Intern <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 | Rhineland, WI Summer of 2013 |