

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, Data Structures (audited), Machine Structure and Assembly Language, Linear Systems, Microprocessor Architecture, Digital Electronics, Microelectronics, 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” Shopify App: Rapidly learned Ruby and the Ruby on Rails web framework to develop a secure, embedded Shopify app for shop owner usage |
| 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, SQL, JavaScript, CSS, HTML, Java, Ruby, Python, Perl, C++, AMD64 Assembly Frameworks: Ruby on Rails, .Net Framework, AngularJS, NodeJS, ExpressJS, Technologies: Heroku, Git, Microsoft SQL Server, Vim, PowerShell, LTspice IV (circuit design) Hardware: Breadboard wiring, soldering Foreign Languages: Spanish (intermediate), German (intermediate) |
| EXPERIENCE | Valetude, LLC. Healthcare Software and Services Wakefield, MA <i>Software Development Intern</i> Summer of 2015 <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) Olin College of Engineering REU Needham, MA <i>Undergraduate Engineering Education Researcher</i> 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. Rhinelander, WI <i>Summer Intern</i> 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 |