**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** Wakefield, MA ***Software Development Intern*** *Summer of 2015*

* Led several projects to create secure, data-driven web apps for internal company use, with successful completion (C#, JavasScript, 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** Needham, MA ***Undergraduate Engineering Education Researcher*** *Summer of 2014*

* Researched engineering education by collaborating with professionals in the field and compiling literature reviews
* Analyzed data for human research with a small team of students and mentors
* Implemented qualitative and quantitative statistical analysis with R and Excel

**Superior Diesel Inc.** Rhinelander, WI

***Summer Intern*** *Summer of 2013*

* Learned the basic functions of the Purchasing, Engineering, Production, Sales, and Accounting departments by rotating through each
* Created Visual Basic macros in Excel for the automation of data formatting in several departments and company-wide inventory organization