

Brendan Quay

Education

University of Pittsburgh - Pittsburgh, PA

Graduation - December 2015

Bachelors of Science - Computer Engineering

GPA - Cumulative: 3.618 Engineering: 3.853

Work Experience

Department of Defense - *Co-op (alternating work-study)*

Jan 2013 - Aug 2015

- Currently hold security clearance.
- Titled Radio Frequency Engineer, Software Engineer, Mobile Vulnerabilities Analyst, System Administrator
- Applied agile software development practices to direct team of 5 branch chiefs in the redesign of internal division websites.

KPInterface - *Internship*

June 2012 - Aug 2012

- Developed a Java calendar application to easily track the employee who was on-call with a GUI interface that used text documents to accommodate changes in personnel and scheduling.

Projects

One Oak Systems - *Smart Home Technology Reducing HVAC Energy Costs* **Jan 2015 - Present**

- Central hub learning algorithm communicates between mobile web application and hardware devices to control the climate throughout a building.

FanCrawler - *Sports Newsfeed Aggregator*

Aug 2014 - Dec 2014

- Automatic sports analyzer that crawls websites to aggregate team specific articles then organizes the articles by date and displays them utilizing user preferences.

Skills

- **Web Development** - Python, JavaScript, HTML, CSS, PHP, Google App Engine, XML, Ajax, jQuery, Webapp2 Library, NDB, MySQL, Requests Library
- **Software Engineering** - Java, C, Sockets, Fuzzing, UML, Git, Software Quality Assurance, Waterfall Methods, Agile Principles, Automated Testing
- **Cryptography and Security** - Public-key, Symmetric-key, BouncyCastle API, Java Cryptography Extension, Authentication Protocols, Threat Mitigation

Competitions/Awards/Volunteer Experience

The Blast Furnace - *Startup Accelerator Program*

Apr 2015 - June 2015

- One Oak Systems - Awarded for placing in the top 3 overall in Randall Family Big Idea

Swanson Senior Design Expo - *University Engineering Competition*

Apr 2015

- One Oak Systems - 2nd place design in the electrical and computer engineering department.

Randall Family Big Idea - *Entrepreneurial Innovation Competition*

Feb 2015 - Apr 2015

- One Oak Systems - 2nd place social innovation and 3rd place overall.

Department of Defense - *Co-op Volunteer Work*

Aug 2013 - Dec 2013

- Sports Chair - Organized professional and casual sporting events.
- Web Administrator - Provided 100% site availability for internal Co-op website.