Ty Trusty

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EDUCATION

The University of Texas at Austin, Austin, TX   *Expected* Graduation: **May 2019**
Bachelor of Science in Computer Science

- *GPA: 3.94*
- *Relevant Coursework: Algorithms, Object-Oriented Programming, Computer Graphics, Data Mining*
- *Honors: University Honors (Fall 2015, Spring 2016, Fall 2016, Spring 2017)*

EXPERIENCE

Lockheed Martin, Denver, CO   Summer 2017
Intern, Rotary and Mission Systems

- Worked on backend software for an internal Research and Development project
- Ported large-scale Windows software project to function on a Linux system
- Developed software to execute code metrics that includes a GUI using C++ QT

LANGUAGES and TECHNOLOGIES

- Proficient in Java, C++, C; Familiar with Python; Exposed to JavaScript, SQL, HTML, CSS.
- Git, Maven, Linux, Microsoft SQL Server, XML, Travis-CI, Eclipse, Visual Studio

PERSONAL PROJECTS

- **Satellite Tracker APP (Android)** –
    - Real-time tracking for all of NORAD tracked objects (~20,000 objects)
    - Visualizes satellites in 2D-space with Google Maps API and in 3D using an android globe library
    - Accumulated 100,000+ downloads, and ~4.3/5 store rating
- **XSS Shell (Python)** –
    - Command line program to test a website for cross-site scripting vulnerabilities
    - Designed a multi-threaded web crawler to discover all links and forms associated with a website
    - Analyzes HTML responses for reflected input and attempts to craft a URL to inject a script

- **DotA 2 Counter Picker APP (Android)** –
    - Created app that allows the user to select DotA 2 game characters and the program determines the best characters against opponents' selected characters
    - Built algorithms to reduce and process raw data (~12,000 to 111 entries) to present to user

- **Emoticon Language Compiler (C++)** –
    - Designed a source-to-source C++ compiler that converts code in a basic ASCII art programming language into runnable C code.
- **Personal Website (HTML/CSS)** –
    - Created personal website using W3.CSS framework to apply understanding of HTML and CSS.

ACTIVITIES

Mobile App Development, Austin, Texas   September/2015 – Present
Active Member
- Participation in Android application development workshops.