Joshua Jacob

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EDUCATION:

Georgia Institute of Technology   August 2016 – Present | Expected Graduation: May 2020
Atlanta, GA

- Candidate for B.S. in Computer Science
- Member of Honors Program
- GPA: 4.0

Brecksville Broadview Heights High School   August 2012 – May 2016
Brecksville, OH

WORK EXPERIENCE:

SecureState, LLC, Cleveland, OH   June 2016 – August 2016
Software Intern

- Developed bug fixes, plugins, and applications for company products
- Created specific products to be packaged with company products (See **SFTP Client**)

SecureState, LLC, Cleveland, OH   December 2016 – January 2017
Software Intern

- Created Input/output chat bot to communicate with company remote scanning machines
- Scripted an automated process for maintaining a dynamic inventory of the hosts listed in the companies DNS server

PROJECTS:

SFTP Client   June 2016 – August 2016

- Created a Secure File Transfer client in Python to transfer files between remote and local filesystems
- Created a user friendly interface to make transferring files simple for all users
    - Used Glade and GTK for all graphical support
    - Worked with Paramiko to handle the SSH connection

SuperSolar   November 2016

- A Python/MATLAB based project that uses the Planet API and data from NASA to calculate the solar viability of a user selected area
- Won first place prize at Aero Hacks

EcoCAR 3 (ADAS Subteam Member)   August 2016-Present

- Working on Object Detection system to be integrated into a 2016 Chevy Camaro to increase fuel Efficiency
- Used computer vision to created a trained object that detects cars from a video frame
- Implemented a tracking system that uses Kalman predictions to track objects through frames

SKILLS / ACTIVITIES:

Languages: Python, Java, C++, PostgreSQL, Bash, Ansible, HTML/CSS, MATLAB
Skills: Git, GTK, Computer Vision, Web Exploitation, vPython,
Operating Systems: Windows, Linux (Kali, Fedora, and Ubuntu)
Capture the Flag: November 2014 - Present

- Competed in various Information Security competitions
    - HSCTF III (21st / 500+ teams)
    - TJCTF (19th / 500+ teams)
    - Published multiple write-ups on GitHub
- Strong knowledge of concepts like web security, binary exploitation, forensics, and cryptography

Extracurricular:

- GreyH@t Information Security Club, Resident's Hall Association Justice Board, GT Catholic Center, HackGT Technical Team, GT EcoCAR 3