# Eric Hoffmann

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## Education / Certifications

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|---|---|
| **Bachelor of Science, Computer Engineering** | Expected: May 2020 |
| University of Maryland at College Park | Current GPA: 3.49 |
| A. James Clark School of Engineering | 3x Dean's List |
| **ACES Cybersecurity Honors Citation** | May 2018 |

## Work Experience

**Leidos Software Engineering Internship (2019)**          June 2019 – August 2019
- Created machine learning models (LSTM, random forest) to predict operational plan success
- Designed Jupyter Notebook plugin in JavaScript for use with algorithm tagging and extraction

**Leidos Software Engineering Internship (2018)**          June 2018 – August 2018
- Used Keras/Tensorflow machine learning libraries to differentiate IoT network traffic
- Contributed to image manipulation detection tool using Python with OpenCV
- Stood up application specific Docker containers on AWS

**Leidos Software Engineering Internship (2017)**          June 2017 – August 2017
- Collaborated with another intern to create a serverless RESTful web application in JavaScript
- Utilized Amazon Web Services (Lambda, API Gateway, S3), Angularjs, and Nodejs
- Implemented document (docx, pdf, xlsx) and database (DynamoDB) parsing and search

## Activities

**Designing, Building, and Flying Quadcopter Drones**          Summer 2015 – Present
- Modeled custom 3D printed quadcopter frame using Autodesk Inventor
- Diagramed, wired, and soldered connections between electrical components

**ACES Cybersecurity Honeypot Project [School Project]**          January 2017 – May 2017
- Designed and operated Linux honeypot to collect data on attackers
- Created bash and Python scripts to automate management of honeypot

**Autonomous Over Sand Vehicle (OSV) [School Project]**          September 2016 – December 2016
- Worked with a team to design a four wheeled autonomous rover
- Wrote C++ Arduino code needed for navigation and control

**C++ Video Game Design**          ~Spring 2015
- Utilized Allegro 4.2 game programming library to create multiple small games

**Java *Minecraft* Video Game Modification**          2011 – 2014
- Created Bukkit server framework plugins for easier server administration

## Skills

- Programming Languages: C, C++, MATLAB, Java, Python, JavaScript, HTML, CSS, Verilog
- Programs/Frameworks: Git, AWS, Tensorflow, Keras, Angularjs, Nodejs, Microsoft Office Suite, Wireshark, Autodesk Inventor, Xilinx
- Other Skills: Unix, Windows, Circuit Design, Soldering, CAD Modeling, Website Design
- Coursework: Programming Languages, Algorithmic Analysis, Cybersecurity, Software Reverse Engineering, Circuits, Signal Analysis, Discrete Math, Differential Equations, Calculus, Engineering Design, General Physics