

# SAM SALTWICK

STUDENT AT THE  
UNIVERSITY OF  
MARYLAND

✉ sam@saltwick.com

🌐 www.saltwick.com

☎ 8622212430

📍 6 Lake Dr. East  
Wayne, NJ 07470

🌐 /in/samsaltwick

🔗 ssaltwick

## Skills

### PROGRAMMING LANGUAGES (RANKED)

Python

Java

Processing

MATLAB

Arduino

HTML

CSS

Ruby

C

OCaml

Verilog

PHP

### SOFTWARE

Adobe Premiere Pro CC

Adobe Photoshop CC

Windows

Linux

## Relevant Coursework

Introduction to Object  
Oriented Programming  
I & II

Introduction to  
Computer Systems

Discrete Mathematics

Organization of  
Programming  
Languages

Algorithms

Signals and Systems  
Theory

Digital Logic Design

Circuit Design

## Education

University of Maryland Honors College, College Park

B.S. Computer Engineering 2020

GPA: 3.7

## Employment

### Coder Kids

Product Developer & Tutor

Teaching children ages 6-13 basic computer science concepts

Helping students set SMART goals for each session

Developing production tools to enhance company workflow

Contributed to enrichment program expansion through the creation of a promotional video

Designing and implementing novel courses to be taught in enrichment programs

Mclean Virginia  
Sept. 2017 to Current

### Tourneau

Information Technology Intern

Built and configured CentOS 7 Server

Developed proof-of-concept Chef Configuration Management system

Created a short film for a company event in Adobe Premiere Pro and Adobe Photoshop

Learned valuable communication skills through corporate presentations

New York, NY  
June 2017 to July 2017

## Projects

### Oversand Vehicle Team Project

Worked towards building a robot that could measure and neutralize a chemical pool

Designed and built electrical circuits to power, control, and fulfill given tasks

Programmed an Arduino to control motors, ultrasonic sensors, and radio communicators

Presented our design and build process to a class of 40 students as well as several professors

Oct. 2016 to Dec. 2016

### Autonomous Unmanned Systems Research

Researched a method to autonomously detect terrorist attacks in public areas

Used Python with OpenCV and Tensorflow to recognize objects

Developed research paper and video presentation of current work

Built simulation to accurately model various efficient navigation algorithms

Spring 2017 to Spring 2018

### Genetic Algorithm Simulation

Built a simulation of a genetic based path finding algorithm using p5.js

Experimented with different obstacles and growth rates

Created a tool to plot simulation data in the browser

March 2018

## Awards

A. James Clark School of Engineering · Dean's List

Received a spot on the Dean's List four consecutive semesters

Spring 2018

## Activities

### Research Peer Mentor

Assisted current student researchers with their projects

Organized and developed lab tools and methods

Prepared labs and lectures for students

Communicated between students and research educator

Jan. 2018 to May 2018