Daniel B. Chen

Cell: (240) 671-7497 Email: dchen1395@gmail.com
Personal Site: dchen7.github.io | Github: github.com/dchen7

EDUCATION

University of Maryland, College Park Class of 2017
B.S. Computer Science 3.98 GPA
B.A. Economics
Honors Program - Advanced Cybersecurity Experience for Students
Banneker/Key Scholar (Full scholarship awarded to top 1% of incoming class)

EXPERIENCE

Maryland Cybersecurity Center – Research Intern Jun 2014 – Present
- Wrote R script that uses machine learning techniques to detect cyber attacks in web server log files

UMD CATTLab – Software Engineer Intern Nov 2013 – Present
- Developed the backend of a RESTful web service that takes raw data from transportation agencies and turns it into useful information about bottlenecks, traffic accidents, and more
- Implemented Spring MVC controller to serve surveillance images from a PostgreSQL database
- Set up Spring Security filters to assign appropriate permissions to users

ACES Cybersecurity Competition Team – Team member Oct 2013 – Present
- Practiced exploiting vulnerabilities such as data tampering, SQL Injections and Cross-Site scripting
- Reverse-engineered binary executables using IDA
- Competed in various cybersecurity competitions, such as National Cyber League and Kaizen CTF

PROJECTS

Clusterfy – PennApps Winter 2015
Best Use of Spotify/Echo Nest APIs
- A web application that extracts music from a user's Spotify playlists and performs k-means clustering to group songs based on fundamental properties such as key signature and tempo
- Creates a playlist based on these properties and inserts it into the user's Spotify account

Tennis Predictor
- A web application that uses logarithmic regression to predict the outcome of tennis matches. Built with Python's scikit-learn library and Flask

MyOwn Drums - YHack 2014
- Developed an Android application that interfaces with the Myo gesture control armband to simulate a virtual drumset

Honeypot Design
- Created intentionally vulnerable containers in OpenVZ for use as high interaction honeypots
- Set up Snoopy Logger to log keystrokes of malicious intruders
- Wrote bash scripts to process log files and transfer them remotely from Honeypot VM to a Data VM

Autonomous Hovercraft
- Worked with a team of 10 students to build an autonomous hovercraft to navigate an obstacle course
- Designed circuits and programmed in Arduino language to control hovercraft

SKILLS

Proficient: Java, Spring Framework, Python, Flask, R, Bash, C, Git
Familiar: Ruby, HTML, CSS, Javascript, PostgreSQL