Daniel B. Chen

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EDUCATION

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

EXPERIENCE

Google – Software Engineering Intern Summer 2015
- Accepted an offer with Google's gTech Engineering team on a machine learning focused project

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 Engineering Intern Nov 2013 – Feb 2015
- Developed the backend of a RESTful web service that allows users to query for useful information about bottlenecks, traffic accidents, and more from transportation agencies
- Implemented Spring MVC controller to serve traffic surveillance images from a PostgreSQL database

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

PROJECTS

Goomba Squasher VR – Bitcamp 2015
1st Prize Microsoft Product Hack
- Integrated the Microsoft Kinect and the Oculus Rift with Unity Engine to simulate a Mario game
- Used body movement to control character in game for an immersive virtual reality experience

Clusterfy – PennApps Winter 2015
Best Use of Spotify/Echo Nest APIs
- Built web application that extracts music from a user's Spotify playlists and performs k-means clustering to group songs based on fundamental features such as key signature and tempo
- Recommends a playlist for each cluster and allows the user to insert it into their 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 Research
- Created intentionally vulnerable containers in OpenVZ for use as high interaction honeypots
- Wrote bash scripts and cron jobs to perform routine maintenance

SKILLS

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