Daniel B. Chen

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EDUCATION

University of Maryland, College Park Class of 2017
B.S. Computer Science, B.A. Economics 3.95 GPA
Honors Program - Advanced Cybersecurity Experience for Students
Banneker/Key Scholar (Full four year academic scholarship)

EXPERIENCE

Google – Software Engineering Intern Summer 2015
- Worked on backend of Device Assist mobile app, which recommends tips for using Google products
- Built data pipeline from an internal API to a distributed database using Go
- Wrote MapReduce job to aggregate user feedback for the app
- Improved recommender engine to take into account user feedback

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 Game Engine to create a virtual reality Mario game
- The game uses body movement to control the character for an immersive virtual reality experience

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 features such as key signature and tempo
- Recommends a playlist for each cluster and allows the user to insert it into their Spotify account

MyOwn Drums - YHack 2014
- An Android application that interfaces with the Myo armband to simulate a virtual drumset

Honeypot Research
- Created intentionally vulnerable containers in OpenVZ for use as high interaction honeypots to study the behavior of cyber attackers
- Wrote bash scripts and cron jobs to perform routine maintenance

SKILLS

Proficient: Go, Java, C, Unix, Git
Familiar: HTML, CSS, SQL, Spring MVC, Python, Flask, R