

Daniel B. Chen

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EDUCATION

University of Maryland, College Park Class of 2017
B.S. Computer Science, B.A. Economics 3.96 GPA
Honors Program - Advanced Cybersecurity Experience for Students
Banneker/Key Scholar (Full four year academic scholarship)

PROFESSIONAL EXPERIENCE

Google – Software Engineering Intern May 2015 – Aug 2015

- Developed backend of the Device Assist mobile app, which recommends tips for using Google products and has a 4.2 rating on the Google Play Store with 100k-500k installs
- Built data pipeline in Go to get tips from an internal API and store them in a distributed database
- Wrote MapReduce job to aggregate user feedback for the application
- Updated recommender engine to take into account user feedback to improve tip recommendations

Maryland Cybersecurity Center – Research Intern Jun 2014 – May 2015

- Worked in a 3 person team to write an R script that uses clustering algorithms to detect cyber attacks in web server log files

UMD CATTLab – Software Engineering Intern Nov 2013 – Feb 2015

- Developed 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

PROJECTS

CSI: Clinical Search Index – Hophacks Spring 2016

MedImmune Prize: Develop a simple, user-friendly visualization tool for navigating biomedical data sets

- CSI is a search tool for clinical trials based on properties such as disease, sponsor credibility, and patient eligibility
- It uses a heat map to visualize the number of ongoing trials that match the user's query in each state

Goomba Squasher VR – Bitcamp 2015

1st Prize Microsoft Product Hack

- Built a virtual reality Mario game by integrating the Microsoft Kinect, Oculus Rift, and Unity engine
- The Kinect detects body movements which are translated into in-game actions for an immersive virtual reality experience

Clusterfy – PennApps Winter 2015

Best Use of Spotify/Echo Nest APIs

- Clusterfy extracts songs from a user's Spotify playlists and performs k-means clustering to group them based on fundamental features such as key signature and tempo
- It recommends a playlist for each cluster and allows the user to insert it into their Spotify account

Honeypot Research

- Set up keyloggers on high interaction honeypots to study the behavior of cyber attackers
- Wrote bash scripts and cron jobs to perform routine maintenance

SKILLS

Proficient: Java, C, Go, Python, Unix

Familiar: HTML, CSS, Javascript, Meteor, Flask, Django, Spring, R, SQL