# Mikael P. Mantis

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## Education

**University of Pennsylvania**, B.S.E in Computer Science, Philadelphia PA, May 2018

**Relevant Coursework:** Data Structures, Algorithms, Software Engineering and Design, Internet and Web Systems, Networked Systems, Computer Architecture, IOS Development, JavaScript, Data Visualization, Design and Implementation of Cloud Networks, Theory of Networks, Operating Systems (current course), Intro to Astrophysics

**Technologies:** Java, JavaScript (React, d3.js, some Node), Swift, C, C++, HTML, CSS, Python (NumPy/SciPy, AstroPy) git, LaTeX, TCP/IP

## Work Experience

**WillowTree, Inc.**                                                                                               **Durham, NC**
*Software Engineering Intern*                                                                          *Summer 2017*
- Worked on a corporate website, fixed front-end, styling, and server related bugs and wrote front-end features and back-end unit tests using **ES2015** and **React**. Performed code review of a multimedia app for a recognizable worldwide brand. Looked for issues related to code readability, reusability, and modularity as well as security related bugs.

**University of Pennsylvania**                                                                        **Philadelphia, PA**
*Teaching Assistant – CIS 110*                                                              *September 2016 - Present*
- Taught recitation to supplement lecture, held lab office hours for debugging and answering course related questions and graded assignments written in **Java** for students taking Introduction to Computer Science.

**The Daily Pennsylvanian (DP)**                                                                  **Philadelphia, PA**
*Web Developer*                                                                                  *February 2016 – June 2017*
- Wrote **JavaScript**, **HTML**, and **CSS** code and worked with graphic designers to create informative websites/web projects tailored for the University of Pennsylvania's undergraduate population.

**Brav Conflict Management**                                                                    **Remote based in CA**
*Game Development Intern*                                                                           *Summer 2016*
- Used **three.js** and Maya to create 3D models, integrated models, create 3d environment, and implement camera controls in an **HTML** based game.

## Projects

- **TrickingSurvey (Ongoing)** Single page application that compiles and displays data related to the sport of martial arts tricking using **React** and **d3.js** (solo project)
- **Network Traffic Measurement of Big Data Analytics (Spring 2017)** – Two-person research project on the network traffic patterns on Pregel+ applications, analyzed with **tcpdump, libcap, and openssl**
- **GroupBoard (Spring 2017)** – IOS App that allows users to create sound bites visualized by square image tiles that get stored in Firebase
- **Flying Mantis Search Engine (Fall 2016)** - Developed search engine in team of four. Worked on Java Servlet that run on top of an implementation of Jetty like server, able to retrieve search results from index in 0.7 - 1.2 ms, backend written with **Java/SQL** and front-end written with **HTML, CSS, and JS.**
- **Mini-Minecraft (April 2016)** Wrote random terrain generator and UV texture mapping based on the game, Minecraft in **C++** and OpenGL for a three-person project.
- **Your Courses Deconstructed (April 2016)** Wrote **HTML, CSS, and JavaScript** to display interactive graphics along with other information related to courses at Penn along with one other developer and a designer.

## Activities/Leadership Positions

**Penn Hype Dance Crew**                                                                          *Fall 2014 - Present*
*President (2017 – 2018), Vice President (2016 – 2017), Internal and External Affairs (IEA) Chair (2015 – 2016)*
- (President) Oversaw all board operations, assisted other board members as needed, served as liaison for alumni, set goals and vision for the entire team, and was the primary point of contact between the University and the team of 38 people.
- (Vice President) Coordinated dance performances at events run by other organizations, auditions, and assisted the President in overseeing the rest of Hype.
- (IEA Chair) Coordinated mentor/mentee program, organized several internal social events to facilitate team building as well as external social events with other dance groups to strengthen partnerships and relations with other groups on campus.

**Osiris Senior Society**                                                                           *Spring 2017 - Present*
*Social Chair (Spring 2017 – Spring 2018)*
- Organized social events for 34 member club of seniors made up of leaders in various performing arts groups.

**Freaks of the Beat Dance Crew**                                                               *Fall 2014 – Present*
*Vice President Internal (Spring 2015 – Spring 2016)*
- Liaison between the group and the Platt Student Performing Arts House. Helped run the largest annual breakdancing jam in Philadelphia, Rhythmic Damage X, on October 31st, 2015.

**Check One**: **Penn's Mixed Heritage Group**                                              *Fall 2015 – Present*
*Marketing Chair (Fall 2015 – Spring 2016)*
- Created cover photos and Facebook event pages for club meetings as well as promoted events. Check One is UPenn's only mixed heritage club on campus.