

# Charles Tark

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## EDUCATION

### **CORNELL UNIVERSITY • BS IN COMPUTER SCIENCE**

Minor in Information Science • Grad. May 2016 • GPA: 3.1

College of Engineering | Ithaca, NY

**Coursework:** Algorithms, Operating Systems, Object-Oriented Programming, Functional Programming, Computer Game Design, Unix Tools and Scripting, Software Engineering, Human-Computer Interaction Design, Artificial Intelligence

## EXPERIENCE

### **CORNELLMAKE | WEB DEVELOPMENT LEAD**

Oct 2015 – May 2016 | Ithaca, NY

- Created Python/Django-based online platform to connect makers and creatives across communities.
- Integrated Amazon AWS S3 to store and query user-submitted media.
- Led startup of 5 developers with project lead in design and implementation of site features.

### **NORTHROP GRUMMAN ES | SOFTWARE ENGINEERING INTERN**

May 2015 – Aug 2015 | Baltimore, MD

- Designed and implemented database-driven application in JavaScript and Oracle DB to automate policy compliance for all of the facility's networked machines and devices.
- Performed database model design, UI/UX design, and regression testing.

June 2014 – Aug 2014 | Baltimore, MD

- Designed and implemented testing procedures software to support manufacturing within the Baltimore BWI campus.
- Implemented new functionality within the campus-wide utilized Test Data Sheets database software to improve operator efficiency and ease of use.

### **CORNELL UNIVERSITY | ENGINEERING PEER ADVISOR**

Mar 2014 – May 2016 | Ithaca, NY

- Led ENGRG 1050 course and mentored new students in engineering topics at Cornell.
- Acted as a resource for first-year students by establishing a strong inter-personal connection through on-going face-to-face and online communications.

## PROJECTS

### **RHAPSODIZE**

Android App for Public Speaking Training

- Researched, designed, and implemented Android app for improving public speaking skills through training of speech disfluencies.
- Collaborated with another developer to integrate Carnegie Mellon's CMUSphinx speech recognition API for "crutch word" detection.
- Wrote research paper with experimental data/results.

### **TECHREC**

Product Recommendation Data-Driven Web App

- Created streamlined, user choice-centric product recommendation web app.
- Worked with 3 students to design and implement compelling interface, front-end with HTML/CSS, JavaScript
- Used Semantics3 e-commerce API, Python, PHP for database interaction.

## SKILLS

### **PROGRAMMING**

Python • Java • HTML • CSS • Matlab • OCaml • Django • Android • JavaScript • SQL • VBA • Shell •  $\text{\LaTeX}$

### **OTHER**

Linux • Eclipse • Git • Android Studio • Photoshop • Access • SAP xMII