

# Charles Tark

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## EDUCATION

### CORNELL UNIVERSITY

BS IN COMPUTER SCIENCE  
Minor in Information Science  
Grad. May 2016 | Ithaca, NY  
College of Engineering

## SKILLS

### PROGRAMMING

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

### SOFTWARE

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

## COURSEWORK

### UNDERGRADUATE

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 – Present | Ithaca, NY

- Created online platform to connect makers and creatives across communities.
- Implemented site components using Python-based Django web framework.
- Integrated Amazon AWS S3 to store and query user-submitted media.
- Lead team of five developers 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 network nodes.
- Performed database model design, UI/UX design, and regression testing.
- Created foundation for sector-wide software solution.

June 2014 – Aug 2014 | Baltimore, MD

- Designed, implemented, and enhanced tools and software to support manufacturing within the Baltimore BWI campus.
- Implemented new functionality within the Test Data Sheets database software to improve operator efficiency and ease of use.
- Cooperated with process engineers to add critical changes to emVP software.

## PROJECTS

### RHAPSODIZE | ANDROID APPLICATION FOR PUBLIC SPEAKING TRAINING

Jan 2015 – Present | Ithaca, NY

- Collaborated with Mark Yoon to research, design, and implement Android app for improving public speaking skills through training of speech disfluencies.
- Integrated Carnegie Mellon University's CMUSphinx speech recognition API for crutch word detection.
- Research paper completed and in the process of submission.

### TECHREC | PRODUCT RECOMMENDATION DATA-DRIVEN WEB APP

Sep 2014 – Present | Ithaca, NY

- Worked with 3 other students to create intuitive, user-friendly technology product recommendation web application based on specific user needs.
- Designed and implemented compelling user interface, front-end with HTML/CSS, JavaScript
- Used Semantics3 e-commerce API, Python, PHP for backend database searching

## AWARDS

2012 Current Northrop Grumman Electronic Systems Engineering Scholar  
2013 Cornell Engineering Global Fellow  
2014 Adobe Student Representative