# MARK YOON

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## EDUCATION

**Cornell University**                                                                Aug. 2012 - May 2016
*B.S. in Computer Science*                                                                    *Ithaca, NY*

· Relevant coursework: Software Engineering | Operating Systems | Distributed Systems | Algorithms
Object-Oriented/Functional Programming | Artificial Intelligence | Natural Language Processing
· Cumulative GPA: 3.566/Major GPA: 3.734 – Dean's List

## EXPERIENCE

**Susquehanna International Group**                                                           Summer 2015
*Software Engineer Intern*                                                               *Bala Cynwyd, PA*

· Designed a data loader system that performs time-sensitive data acquisition, storage, and processing.
· Developed a controller-agent system in Python, making redundancy and user visibility considerations.
· Created test suites and visibility tools for troubleshooting the old data loader.

**Yu Lab (Cornell University)**                                                   Summer 2014 - Spring 2015
*Full-Stack Engineer*                                                                         *Ithaca, NY*

· Designed and implemented a web application for protein network and interaction modeling.
· Used various javascript visualization libraries to create interactive 2D and 3D protein interaction models.
· Handled user queries using Python CGI scripts and loaded data from a MySQL database.

**Department of Computer Science (Cornell University)**                            Spring 2014 - Fall 2015
*Teaching Assistant*                                                                          *Ithaca, NY*

· CS 2110: Object Oriented Programming and Data Structures
· CS 4410/4411: Operating Systems & Practicum
· Answered students' questions at office hours and graded assignments/exams.

## PROJECTS

· **Classroom DJ** (2015): Ruby and Rails application that provides assignment submission and grading
management for professors and students; built on-top of existing platform for course management.
· **Connect Four** (2015): Python AI and GUI where users can play against bots or watch two bots play
each other. Bots are implemented using minimax tree search and several different heuristic functions.
· **Operating System** (2014): UNIX-style OS written in C with scheduling, UDP/TCP networking, ad
hoc networking, and file system capabilities.
· **Rhapsodize** (2014): Java-based Android application that detects and notifies users of crutch-word
usage in their speech. Uses the CMUSphinx Android package to perform the speech recognition.
· **Atlas Tabs** (2014): Chrome extension built on the MEAN stack that uses the k-NN algorithm to
recommend websites based on the user's location and time.

## TECHNICAL SKILLS

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|---|---|
| **Proficient** | Python, Java, SQL, HTML, CSS |
| **Familiar** | C, C++, Javascript, Ruby |
| **Tools & Libraries** | Flask, Node.js, Rails, Git, Agile, UML |