

# Charles Yu

108 Eddy St Apt 21, Ithaca NY, 14850

☎ 650.862.8697 ✉ charles.yu108@gmail.com 🌐 charlesyu108.github.io

## EDUCATION

---

### Cornell University

Computer Science, M.Eng.

*Beginning Jan 2019*

Ithaca, NY

*Jan 2019 – May 2019*

### Cornell University

Computer Science, B.A. – GPA: 3.826

*Minor in Asian American Studies; Dean's List 6 semesters*

Ithaca, NY

*Aug 2015 – Dec 2018*

## WORK EXPERIENCE

---

### Ab Initio Software

Software Engineering Intern

Lexington, MA

*Jun 2018 - Aug 2018*

- **REST-to-DML:** Code generation utility that takes a RESTful API service description (Swagger/OpenAPI) and generates service-specific Ab Initio DML code to call the described endpoint operations.

### Workday

Software Engineering Intern

Pleasanton, CA

*May 2017 - Aug 2017*

- **Authorization Engine:** Designed a role-based access control authorization schema & built an authorization engine for an internal web service.
- **Elastic Stack Log Archive:** Built proof-of-concept service for remote server log aggregation, log searching, and log-metric visualization using elastic stack.

### Knodemy

iOS Development Intern

Livermore, CA

*Jun 2016 - Aug 2016*

- **K'nnect Mobile App:** iOS app to connect students with mentors at hackathons. Implemented chat service, newsfeed, user-registration, authentication, and Firebase integration.

## RESEARCH

---

### Cornell Systems Lab: Blockchain Sharding Solutions

On-chain sharding solution built on Bitcoin-NG with Emin Gün Sirer, Soumya Basu, and Kai Mast

*Feb 2018 - Present*

## PROJECTS & PORTFOLIO PIECES

---

**peoplethink** – 🌐 [peoplethink.herokuapp.com](https://peoplethink.herokuapp.com) : Ad-hoc information retrieval system for exploring the opinions and sentiments of niche communities on any topic imaginable. Built on Q&A pairs from the top 1000 Reddit /r/IAMA posts of all time (as of March 2017)

**The Wine Network** – 🌐 [charlesyu108.github.io/wineviz](https://charlesyu108.github.io/wineviz) : Interactive d3 visualization for exploring wine varieties through a graph network. Varietal similarity determined through analysis of textual review features.

**AnnouncementBot:** GroupMe mass notification and announcement system.

## ADDITIONAL

---

**Languages:** [Proficient] Python, JavaScript, OCaml, Java [Familiar] Scala, Swift, C, Ab Initio

**Tools and Frameworks:** d3.js, Heroku, Play Framework, Flask, Django, scikit-learn, AngularJS, Elastic (ELK) Stack, MongoDB

**Extracurricular Activities:** CS 3110 (Functional Programming) Course Staff – Fall 2018, CS 4300 (Information Retrieval) Course Staff – Spring 2018, Sigma Phi Epsilon, Lifestyle Blogger for the Cornell Daily Sun

**Interests:** Music, Pour-over coffee, Writing, Fishing, Thrifting