

# Raymond Yung

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## Education

### Masters of Science in Electrical Engineering

Drexel University, Philadelphia PA

Completed June 2022 | GPA: 3.68

### Bachelors of Science in Electrical Engineering

Drexel University, Philadelphia PA

Completed June 2020 | GPA: 3.00

## Skills

**Programming Languages:** Python, Javascript, MATLAB, Powershell, C++

**Technical Skills:** Machine Learning, NLP, Pattern Recognition, Digital Forensics, Web Development

## Relevant Projects

**Interview Bot** (Skills: Python, scikit-learn, Natural Language Processing, React, Flask)

July 2022 - present

- Developed an interactive FAQ bot to respond to commonly asked interview questions
- Built a database that consists of over 100 interview questions
- Created using sci-kit learn and spaCY (natural language processing toolkit)
- Created different implementations using Discord and React

**Blog / rayyungdev.github.io** (Skills: React, Gatsby, Web Development)

July 2022 - present

- Designed and created a personal site from scratch to as a means to learn React and showcase personal projects
- Built using Gatsby as a static site generator that is now hosted on GitHub

**Resume Builder** (Skills: Python, Object Oriented Programming, Database, Yaml)

July 2022 - August 2022

- Developed a resume building application that can build different resumes that depend on purpose
- Created multiple databases to organize and pull relevant job information
- Utilized Object Oriented Programming to create a data interpreter and a resume template

**DialogRPT / NLP with Deep Learning** (Skills: Pytorch, Deep Learning, AWS)

March 2022 - June 2022

- Built deep learning models to predict engagingness of dialog responses based on reddit data
- Implemented CNN and LSTM architecture and achieved comparable score with literature
- Set up virtual desktops using AWS

**Predicting Social Vulnerability** (Skills: Python, Machine Learning)

March 2022 - June 2022

- Used binary classification techniques to predict how vulnerable a household is
- Implemented logistic regression and Naive Bayes algorithms from scratch
- Strategized with team to better understand how to preprocess social vulnerability data

**Cell Segmentation and Tracking Algorithm** (Skills: MATLAB, Image Processing)

September 2020 - April 2021

- Optimized thresholds for phase contrast algorithm leading to more accurate cell tracking scores
- Worked with large datasets containing cell images
- Led to competitive submission for the Cell Tracking Challenge
- Used cell tracking and segmentation software created by Dr. Andrew Cohen

## Professional Experience

### Privacy and Security Intern

#### Health Partner Plans

Philadelphia, PA, April 2019 - December 2019

- Managed data access through company governance software
- Automated daily computer activity reports with Powershell to improve efficiency
- Collaborated with IT Staff to promote cybersecurity and role governance within company

### Information Technology

#### Drexel University

Philadelphia, PA, March 2018 - September 2020

- Assisted users with personable expertise to thoroughly explain technical issues and solutions
- Managed school-wide user permissions using tools like Active Directory
- Authorized data access to users including group emails and servers