

# Eli Schiff

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## EDUCATION

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### Rensselaer Polytechnic Institute

Troy, NY

B.S. Computer Science, Minor in Economics

Expected Graduation: December 2021

GPA 3.81 (3.94 in major), Dean's Honor List: Fall '18, Fall '19, Spring '20, Summer '20

Rensselaer Leadership Award Scholarship

## EXPERIENCE

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### Software Engineering Intern at Coursedog, Inc.

New York, NY — Summer 2018 and Fall 2020

- Increased test coverage using the Jest unit testing framework and Cypress E2E tests
- Designed a Python script used to collect emails and names for marketing purposes
- Developed new pages and features using Vue.js including a custom form similar to Google Forms

### Software Engineering Intern at Optum (UnitedHealth Group)

Boston, MA — Summer 2019

- Developed Python program to monitor file changes on a 150tb Hadoop Cluster to assist with data governance
- Worked on a Python program to verify files were successfully migrated from one server to another
- Received first place in a company-wide hackathon with over 80 employees and interns for the development of an API to simplify access to Individual Health Records

### Instructor at Advanced Mechatronics for Kids

New York, NY — 2014-2018

- Worked one afternoon a week and on ad hoc basis to teach engineering, robotics, and computer science in after-school STEM educational program

## PROJECTS

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### QuACS Course Scheduler

<https://quacs.org>

- Open source, mobile friendly website/pwa to find and schedule courses to take at RPI
- Automatically checks for missing prerequisites and course time conflicts
- Actively used by thousands of RPI students across all majors
- Developed using TypeScript in Vue.js along with WebAssembly and Web Workers
- Nightly refreshes of course data using Python scripts running on GitHub actions

### Submitty

- Open source programming and assignment submission website developed at RPI
- Implementing an online queue to keep track of remote students who need help during office hours and provide analytics for instructors to understand how to allocate resources to best help students
- Overhauled accessibility across entire website including writing test to avoid accessibility related regressions

### Rubber Duck Discord Bot

- Fully-featured Python moderation bot for 2,000+ member RPI Discord chat server
- Hosted on Google Cloud using Gitlab continuous integration and continuous deployment

## LEADERSHIP

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### Data Structures Undergraduate TA

Spring 2019-Present

- Run weekly labs and office hours to assist students in learning C++ and Data Structures

### Upsilon Pi Epsilon (Computer Science Honor Society)

Fall 2019-Present

- Help run exam review sessions before all freshman level computer science exams

### Undergraduate Curriculum Committee

Spring 2019-Spring 2020

- Freshman and Sophomore representative elected by classmates to vote on computer science curriculum changes

## SKILLS

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### Programming Languages

- Python, Vue.js, C++, JavaScript, TypeScript, Java, SQL, PHP, Node

### Technical Knowledge

- Git, Linux, GitHub Actions