

# ROY XU

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## EDUCATION

Carnegie Mellon University

**Bachelor of Science in Information Systems**

📅 Class of 2021

📍 Pittsburgh, PA

Additional Major in Human-Computer Interaction

Minor in Computer Science

GPA: 3.73/4.0

Dean's List: 2017 - present

## EXPERIENCE

GoDaddy

**Software Engineering Intern**

📅 May 2019 - Aug 2019

📍 Sunnyvale, CA

- Redesigned shipping configuration flow for GoDaddy's Online Store, improving product level shipping selections for merchants - React, Ruby on Rails, MySQL.
- Implemented shipping related features, allowing merchants to notify customers when local orders are ready for pickup.

Vezzy

**Software Engineering Intern**

📅 May 2018 - Aug 2018

📍 Atlanta, GA

- Led development of Vezzy, a marketplace app for Emory University with over 1.7k downloads - React Native, Firebase.
- Resolved performance issues and implemented features such as Geo-location Search prior to launch.

## TEACHING

15-110: Principles of Computing

**Teaching Assistant**

📅 Sept 2018 - Dec 2018

📍 Pittsburgh, PA

- Taught introductory CS concepts, programming in Python and Assembly, data structures and algorithms, and abstractions in computing, under Professor David Kosbie and Mark Stehlik.

15-112: Fundamentals of Programming

**Peer Tutor**

📅 Jan 2018 - May 2018

📍 Pittsburgh, PA

- Conducted tutoring sessions on weekly basis to help students with assignments and term projects.

## HONORS & AWARDS

- GoDaddy Intern Hackathon - Best Customer Innovation Hack
- Hack112 (CMU) - Best OpenCV Hack
- Margaret Williams Mathematics Prize

## PROJECTS

**GoDaddy Intern Hackathon**

Summer 2019

- Created a domains leakage visualization panel combining GoDaddy's cart data from domains search with Zone-file data of recently added domains to a TLD (.com, .org, etc.) to analyze cart leakage information.
- Cataloged and identified possible leakage sources to achieve better regional domain pricing - SQL, Python, Flask, React.js, Highcharts.

**Cartpal**

Spring 2019

- Designed and developed Cartpal, an iOS app digitizing brick-and-mortar shopping experience - React Native, Pandas, Scikit-learn, Firebase.
- Aggregated user data from shared shopping lists for better product recommendations.

**PyBookLib**

Fall 2018

- Developed a smart book recommendation web app, suggesting reading lists to users based on categories and ratings of previously read books - Flask, Scikit-learn, NumPy.

**StackJump**

Spring 2018

- Created a Stack Jump game with a smart AI character that learns to auto-jump over incoming obstacles by adapting its jump timing and height - Pygame, Tkinter.

**PySnap**

Spring 2018

- Constructed a light-weight image processing program with built-in masks and filters, including cartoon, dither, halftone, grayscale, and pixel art - OpenCV, Pillow, NumPy, Tkinter.

## SKILLS

**Programming**

Python, JavaScript, Ruby, C, SQL

OCaml, C++, R, HTML & CSS

**Tools & Frameworks**

React.js, Ruby on Rails, Redux, Node.js

MongoDB, MySQL, Firebase, Jupyter Notebook

OpenCV, Django, Sklearn, Linux, Git, Vim

**Product Design**

Balsamiq, Sketch, InVision, InDesign

## LEADERSHIP

- Lambda Sigma National Honor Society - Vice President
- Idea to Startup - Organizer & Mentor
- Undergraduate Entrepreneurship Association - Executive Board Member