

# Alex Bellomo

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## Education | Carnegie Mellon University

2022

Bachelor of Science in Information Systems, Minor in Software Engineering

### Relevant Coursework

2018 - 2020

Distributed Systems (Go), Introduction to Computer Systems (C),  
Principles of Imperative Computation (C), Principles of Software System Construction (Java),  
Database Design (SQL, Redis, MongoDB), Web Application Design and Development (Ruby on Rails, React),  
Methods for Statistics and Data Science (R)

## Previous Experience

### Impactiv, Inc., *Software Engineering Intern*

6/2019 - 8/2019

- Built, maintained, and edited over 200 e-commerce websites for small business owners using HTML, CSS, SASS, JavaScript and PHP.
- Ensured each website was ADA compliant to ensure the inclusion of disabled users and avoid potential litigation following a wave of accessibility lawsuits filed across the industry.
- Upgraded and integrated a cross-functional agile development platform.

### Carnegie Mellon - Astrobotic - NASA, *Mission Operations*

5/2020 - 8/2020

- Drafted and published mission operations requirements for MoonRanger, a fully autonomous lunar rover being jointly developed by Astrobotic and Carnegie Mellon under a NASA contract.
- Developed a mission simulator used to optimize the workload shared by mission control.

### Parthean, *Software Developer*

11/2019 - 5/2020

- Built and styled a community hosting platform using React, Bootstrap, and Sass.
- Refactored the codebase to improve readability, extensibility, and efficiency.

### Carnegie Mellon Institute for Politics and Strategy, *Research Assistant*

9/2020 - Present

- Implemented an electoral college game in Flask used to collect data for a study investigating common campaign resource allocation strategies and how they compare to theoretical results on optimal resource allocation vectors in probabilistic EC games.

## Programming Experience

**Scripting** - Java, C, Python, Go

**Full Stack Development** - HTML, Sass, CSS, Javascript, SQL, Redis, MongoDB, React, Ruby on Rails, Postgres, MySQL, Flask, R

## Leadership & Organizations

### Sigma Phi Epsilon, *Philanthropy Chair & Vice President of Member Affairs*

2019 - Present

- Coordinated philanthropy efforts on campus, including various service opportunities as well as fundraising events.
- Founded a not-for-profit ice cream brand with a custom line of CMU-themed flavors. All proceeds were donated to 412 Food Rescue, a local Pittsburgh charity initiative dedicated to fighting hunger.

### Greek Sing, *Chair*

2019 - Present

- Managed an inter-organizational musical complete with set design, music composition, choreography, and tailored costumes.
- Contributed to raising over a quarter million dollars for 412 Food Rescue.

### Carnegie Mellon Ski and Snowboard Team, *Captain*

2020 - Present

- Applied my experience as a former snowboard instructor to coach athletes of all skill levels at weekly team practices.