

Grace Yu

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Education

Carnegie Mellon University

B.S. Computer Science
Minor in Machine Learning
Class of 2020

Skills

Java, C, Python, SML, OCaml,
Android, JavaScript, Git,
LaTeX

Coursework

*in progress

(15-312) Foundations of
Programming Languages*
(15-440) Distributed Systems*
(10-601) Machine Learning
(15-210) Parallel and Sequential
Algorithms
(15-213) Computer Systems
(15-251) Great Theoretical Ideas in
Computer Science

Awards

- **Best Technical Writing Award**

Tartan Data Science Cup
February 2017

Competed in a Kaggle-style data science competition with a random forest model for predicting loan outcomes that placed in the top eight.

- **Third Place**

Bezirk Internet of Things Hackathon
October 2016

Created an Android multiplayer game called *One Direction* that uses a mobile interface to control a Sphero robot. Players take turns entering directions to score a goal in a round.

Links

GitHub: gyyu
LinkedIn: gyyu00

Interests

StarCraft (Third Place, High School StarLeague 2011), D Flat Singers, League of Legends, Piano

Experience

- **Research Assistant**

CyLab Security and Privacy Institute
Carnegie Mellon University
September 2018 — Present, Pittsburgh, PA

Convert formalized semantics for secure multi-execution with stateful declassification into OCaml specifications to implement information flow control as a browser security solution.

- **Software Engineering Intern**

Uber Advanced Technologies Group
May 2018 — August 2018, Pittsburgh, PA

Designed and created an implementation-agnostic scenario format to facilitate collaboration for autonomous vehicle testing.

- **Teaching Assistant**

(15-150) Principles of Functional Programming
Carnegie Mellon University
January 2018 — Present, Pittsburgh, PA

Teach three hours of weekly lab sections for over 60 students, hold three hours of weekly office hours, write and test student assignments, give course design feedback, and assist in grading for a 300+ person class.

- **Research Assistant**

eHeart Lab, Human Computer Interaction Institute
Carnegie Mellon University
January 2018 — May 2018, Pittsburgh, PA

Investigated and analyzed the effect of responses on initial hate speech comments on Reddit with novel fuzzy kappa techniques. Built large-scale Reddit scrapers and created hate speech response generators using RNNs and Markov models.

Extracurriculars

- **President** (August 2017 — Present)

CMU Debate Team
March 2017 — Present, Pittsburgh, PA

Expanded the team from single digit attendance to more than forty members, coached the team to multiple breaks and speaker awards at national tournaments, organized biweekly trips to tournaments, managed the team's financial accounts to a surplus, and planned and hosted a national debate tournament with 70+ attendees.

- **Co-Head** (May 2018 — Present), **Treasurer** (August 2017 — May 2018)

SCS Day Planning Committee
Carnegie Mellon University
August 2017 — Present, Pittsburgh, PA

Organized and hosted the School of Computer Science's annual pride day. Planned an art gallery, talent show, and events by technology-related student organizations, and also budgeted catering and swag items for more than five hundred attendees. Collaborated with the Assistant Dean to receive funding from sponsors and budget approval.