

Jonan Seeley

Senior

Personal Info

Email: jseeley@cmu.edu

Website: jseeley.xyz

Github: jonanseeley

Relevant Courses

15-440 Distributed Systems

15-410 Operating System Design and Implementation

15-451 Algorithm Design and Analysis

11-411 Natural Language Processing

05-436 Usable Privacy and Security

15-356 Introduction to Cryptography

17-303 Cryptocurrencies, Blockchains, and Applications

Awards

Deloitte StartUP

3rd Place

Planned company based around bettering life in Pittsburgh in 72 hours

Algorithms with a Purpose

4th Place

Developed artificial intelligence to compete in a war-like scenario in 8 hours

Skills

Programming: C, Python, C++
Java, SML

Technologies: Django, NLTK,
Tesseract OCR,

Other: Unix, LaTeX, Vim

Education

Carnegie Mellon University — Pittsburgh, PA

Bachelor of Science in Computer Science

Concentration in Security and Privacy

QPA: 3.05/4.00

(Expected May 2021)

Experience

Software Development Intern — Remote

Amazon

June 2020 - August 2020

- Integrated team's service with 2 sister team services to build foundation for further integration
- Updated frontend, backend, and interface to facilitate service integration

Teaching Assistant — Pittsburgh, PA

15-110 Principles of Computing

June 2018 - December 2020 (Head TA Summer '19)

- Led recitations and held office hours several times per week
- Managed autograding platform for 11 programming assignments and 2 lab exams

DevOps Assistant — Pittsburgh, PA

Pittsburgh Supercomputing Center

June 2016 - May 2018

- Collaborated with the Systems team to maintain supercomputers
- Ensured that supercomputers utilization was monitored and above 75%

Projects

Operating System Kernel

- Developed preemptive multithreading operating system kernel
- Implemented over 20 unique POSIX-like system calls
- Integrated user-level threading library to enable multithreaded userland programs

Boggle

- Wrote multiplayer web-based implementation of classic board game
- Used websockets to allow for asynchronous communication