

Cayden Codel

5453 Westwood Drive, West Des Moines, Iowa 50266
Email: cccodel@mchsi.com; Phone: (515) 729-9445; Github: cccodel

EDUCATION

- Carnegie Mellon University, Pittsburgh, PA** June 2021 - Present
- Master's student in computer science research
- Carnegie Mellon University, Pittsburgh, PA** September 2017 - May 2017
- Computer science major, physics and math minor
- Valley High School, West Des Moines, Iowa** September 2013 - May 2017

EXPERIENCE

- Carnegie Mellon University, Pittsburgh, PA—Teaching Assistant, various classes** January 2019 - Present
- Contributed to course design, material, and infrastructure in systems and algorithms courses
 - Planned recitation material and instructed students in office hours
- Mastercard Inc., Arlington, VA—Software Development Intern** June 2020 - July 2020
- Developed backend features for large database compression and management
 - Collaborated with data team in an Agile environment
- Makusafe Corporation, West Des Moines, IA—Full Stack Developer Intern** May 2019 - August 2019
- Implemented a modular testing framework for database and front-end UX
 - Worked with development team and customers to create new, desired front- and back-end features
- MineRL Research Project, CMU, PA—Research Assistant** May 2018 - May 2019
- Designed and implemented experiments for AI and human agents in Minecraft
 - Handled categorizing, labeling, and rendering collected data for research purposes
 - Contributed to reinforcement learning ML models

SKILLS

Collaboration and public speaking

Languages: Java, C, SML, Python, HTML, PHP, SQL, Javascript, and C#

Other: Microsoft Office, Github (git), Unix shell (bash), gdb, Agile framework, numpy and scipy libraries

RESEARCH WORK

Codel, Heule. Unpublished senior thesis on SLS SAT solvers, as part of 05-799 coursework.

Codel, Reeves, Heule, Bryant. "Bipartite Perfect Matching Benchmarks." Submitted to SAT 2021.

Guss, Houghton, Topin, Wang, Codel, Veloso, Salakhutdinov. "MineRL: A Large-scale Dataset of Minecraft Demonstrations." IJCAI 2019.

AWARDS/ACCOLADES

- School of Computer Science Dean's List—Carnegie Mellon University 2017, '18, '19, '20
- Member of Carnegie Mellon University's Phi Beta Kappa Chapter Inducted Nov 2020

ACTIVITIES

- Mock Trial—Valley High School, Carnegie Mellon University November 2015 - May 2021
- Executive board member 2018 - present; captain 2019 - present