

Alexander Havrilla

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Education

- Bachelor of Science in Discrete Math and Logic Carnegie Mellon University, May 2021 GPA: 3.83/4.0
- Additional Major in Computer Science

- Relevant Coursework: Computer Systems, Harmonic Analysis, Principles of Functional Programming, Computational Biology, Vector Analysis, Matrix Theory, Differential Equations, Abstract Algebra

Experience

PGH Pawngrabbers Internship

August 2018 - Present

- Designed and Implemented custom website structured on Django.

Certified Pool Operator. Blackridge Civic Association, Duties:

May 2018 - September 2018

- Improved pool clarity and maintained proper chemical balance and safety.

- Mathematical research at Pittsburgh Regional Science and Engineering Fair 2015 - 2018

- Wrote two Research Papers on topological knots and knot invariants
- Received Duquesne Department of Mathematics

- Blog on rationality and happiness:

- <http://alexanderhavrilla.com/thinking-towards-happiness/>

- Participated in TartanHacks Hackathon 2018:

February 2018

- Built online interactive CMU Course Catalog: CMUCourseNetwork.pythonanywhere.com.

- Natural Language parser for propositional logic system

- Mentor :

2015 - 2017

- Helped instruct fellow students in their studies; usually in math. Handpicked to lead a Calculus math lab that served as supplemental instruction to the class.

Technical Skills

- HTML5, CSS, SQL, Javascript, Java, C#, C/GDB Debugger/x86 Assembly, Python, SML, Machine Learning, Unix/Linux, C++, Git

Leadership

Captain of WHHS Science Olympiad States Team:

October 2015 - May 2017

- Organized system of research notes distribution and building designs using Google Docs

President of National Honors Society chapter at WHHS

October 2016 - May 2017

- Produced volunteer promotional video for WHHS

Extracurricular Activities

- CMU Math Club Member
- PJAS Science Fair Mentor
- Badminton Club Team Member
- Putnam Competitor