

# AARON PAZDERA

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## EDUCATION

AUGUST 2017 – MAY 2021

**APPLIED MATH//COMPUTER SCIENCE (SOFTWARE DEVELOPMENT), UW-STOUT**

Relevant Coursework:

Machine Learning, Human-Computer Interaction, Advanced Web and Internet Programming, Real Analysis, Software Engineering Capstone, Software Engineering Practicum, Numerical Analysis, Systems Programming, Abstract Algebra, Software Engineering, Statistics, Computer Architecture, Calculus I - III, Linear Algebra, Proofs, Formal Languages and Finite Automata, Data Structures, Algorithms, Networking, Web Design, Database Systems

## SKILLS

- Thousands of hours spent programming in C/C++, Java, and Python
- Machine Learning (AI, ML)/Computer Vision (CV) algorithms, Data Analysis techniques
- Experience working on a scrum team, dealing with customers and vendors
- Linux systems, Git CLI, MySQL, NoSQL

## PROJECTS

I spend a lot of my free time programming. Please see <https://apaz-cli.github.io> for my portfolio, which explains my projects in much greater depth. It has many projects on it, including:

- A perceptual image hashing framework
- An implementation of the Google Brain AI team's "MLP-Mixer architecture for Computer Vision"
- A machine learning based perceptual image hash algorithm
- A computational geometry data structure for fast nearest-neighbor lookup in C
- Two Discord bots
- A brainfuck compiler and interpreter (BF is an intentionally confusing programming language)
- A memory debugger and a threadpool implementation in C

## RELEVANT EXPERIENCE

JUNE 2020 – SEPTEMBER 2020

**RESEARCH STUDENT UW-STOUT**

Over the summer I did economic modeling research for Dr. John Stinespring of the University of Tampa with 5 other classmates. We worked on it 8 hours a day for most of the summer and arranged ourselves in much the same way as a scrum team. The experience was equivalent to an internship.

JUNE 2018 – SEPTEMBER 2019

**CASHIER FAMILY FRESH MARKET**

Originally hired as a cashier, I worked nearly every position in the store. Opening, closing, and overnights across most departments.