

Benjamin Pierce

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EXPERIENCE

Solar Durability Lifetime Extension Center, Case Western Reserve University— *Student Researcher*

August 2018 - Current

Investigating the surface crystallization of an aluminum-nickel alloy using computer vision/machine learning techniques.

Ohio Farm Bureau —*Ambassador*

August 2018

Staffed the Land and the Living exhibit at 2018 Ohio State Fair, leading tours for legislators and interacting with the general public to promote sustainable farming practices.

Peth's Landscaping— *General Contractor*

May 2014- present

Worked as a landscaper; duties include mulching, weeding, giving estimates and providing excellent customer service.

EDUCATION

Case Western Reserve University, Cleveland, OH— *B.S. Computer Science - GPA 3.62*

August 2017 - Current

Student in Case School of Engineering; relevant coursework includes Data Structures, Algorithms, Databases, Operating Systems.

PROJECTS

bball_stats — *Web Scraper*

Python module that scrapes multiple websites for basketball player data for advanced analytics; outputs .csv file.

no_overflow— *Automated Buffer Overflow program*

Created with a team as part of a software security course; program uses a combination of GDB, Python and Bash scripting, and x86 assembly to automate a simple buffer overflow exploit in a C program.

TECHNOLOGIES

Experienced with Python, including libraries pandas, sklearn, OpenCV.

Familiar with Java, C.

Familiar with Linux.

Comfortable with version control via git.

AWARDS

Choose Ohio First Scholarship

Recipient(2017-): Chosen on basis of a strong STEM skillset.

Dean's High Honors (Fall 2017-18): Selected to Dean's list for academic performance.

Honda-OSU Math Medal (2017): Recognized for exemplary performance and interest in mathematics .

EXTRACURRICULARS/MISC

-Cuyahoga County 4H Member. Market projects included dairy steer, chicken, turkey, and lamb. (2011-2018). Currently serve as club advisor.

-Study Abroad: May 2018 in Cape Town, South Africa; completed course on thermodynamics and fluid mechanics.

-Clubs: Member of CWRU ACM, Hacker Society.