BENJAMIN PIERCE

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EDUCATION

Case Western Reserve University
B.S. Computer Science

Aug 2017 – Expected May 2021
Cleveland, OH

- GPA: 3.6
- Coursework: Algorithms, Databases, Data Structures, Intro. Artifical Intelligence

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WORK EXPERIENCE

Solar Lifetime Durability Extension Center
Research Assistant

Aug 2018 – Present
Cleveland, OH

- Research focus is on computer vision applications for materials
- Other duties include solar module fabrication, testing, and analysis

Peth's Landscaping
Landscaper

June 2015 – Aug 2018
Strongsville, OH

- Summer job as a landscaper, responsible for mulch, planting, mowing, trimming, etc.

SKILLS

- Programming Languages: Python, R, Java, C
- Libraries: sklearn, skimage, scipy, openCV, pandas
- Technologies: MySQL, Hadoop, Linux, SLURM/HPC

PROJECTS

Image Processing on substrate formation on Ni-Al alloys
Used computer vision techniques to quantize substrate growth rate on electromagnetically levitated, molten droplet of Ni-Al. Successfully confirmed theoretical behaviour through a purely data-driven approach. Output: two poster presentations, paper in progress

Unsupervised Machine Learning on electroluminescence images
Used machine learning to idenfity and classify degradation types in EL images of solar cells in order to impartially seperate modes of failure and computationally detect reasons for power loss

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AWARDS

SURES Scholar
Awarded grant funding for summer research

May 2019
CWRU SOURCE

Choose Ohio First Awardee
Recognized for STEM skills and awarded scholarship

Aug 2017
State of Ohio

Dean's High Honors
Made Dean's list for academic success

Aug 2017-
CWRU