Paul Kawika McCabe

EDUCATION

Case Western Reserve University – Case School of Engineering, Cleveland, OH · *August 2017 – May 2022*
B. S. E. in Electrical Engineering (In Progress) with Secondary Major in Philosophy and Minor in Data Science
- Cumulative GPA: 3.83/4.0, Junior Senior Scholarship, Baker-Nord Center for the Humanities Scholar

DIS Copenhagen – Philosophy Program, Copenhagen, Denmark · *January 2020 – May 2020*
- Relevant Coursework: Computational Analysis of Big Data, Artificial Intelligence, Danish Language and Culture

WORK EXPERIENCE

Data Science Intern *Queen's Medical Center,* Honolulu HI · *September 2020 – present*
- Created and documented a pipeline for patient bed alarm data using Python. Raw csv files were cleaned, standardized, and stored in a PostgreSQL database for easier access and higher scalability.
- Designed an intuitive and accessible data dashboard using Dash to view bed alarm statistics for individual departments.

Computational Diagnostics Researcher *Madabushi Lab (CCIPD),* Cleveland OH · *May 2019 – September 2019*
- Developed an algorithm that uses CT scans to model the airway, bronchioles, and cancerous growths separately in 3D.
- These models can be used to predict diagnostics such as malignant vs benign tumors and prevent unnecessary cancer treatments, recognize tumors early, and model the growth rate of tumors.

Engineering Technician Intern *Subaru Telescope, Akamai Workforce Initiative,* Hilo HI · *June 2018 – August 2018*
- Designed wiring diagrams and setup documentation of a coolant monitoring system for the National Astronomical Observatory of Japan, specifically a 50-million-dollar instrument known as the Prime Focus Spectrograph.
- Installed 23 coolant modules at the summit, ensuring instrument functionality and measurement accuracy. Spectrograph data collected will advance our current understanding of Dark Matter and Dark Energy in the universe.

Research Assistant, xLab *Weatherhead School of Business,* Cleveland OH · *August 2019 – May 2020*
- Served as the undergraduate representative for xLab, a new on-campus initiative that provides digital innovation solutions for large legacy companies through teams of undergraduate and graduate students.
- Produced marketing material and assisted with events such as quarterly meetings and the Digital Futures Conference.

CODING PROJECTS

GitHub: https://github.com/paulmtree
- Analyzed sentiment and generated random sentences from a philosophy book by Søren Kierkegaard. · *August 2020*
- Collected, cleaned, and analyzed U.S. Senator stock trading data to identify suspicious/outlier behavior. · *May 2020*
- Used CT scans of the lungs to separate and model various body parts to be used in predictive diagnostics. · May 2019

ACTIVITIES AND AWARDS

Design for America: Co-Director of Projects and Programming Cleveland OH · *August 2017 – December 2019*
Workshop Coordinator: Fall '19 | Co-Director: Spring '19 | Team Lead: Spring '18, Fall '18 | Member: Fall '17
- Co-Director: Created and directed weekly studio meetings of ~40 members while teaching the design process using social group activities. Introduced use of social activities to increase meeting attendance and sense of community.

Consulting Club: Vice President of Internal Affairs Cleveland OH · *December 2018 – December 2019*
VP of Internal Affairs: Fall '19 | Public Relations: Spring '19 | Member: Fall '18
- Increased club attendance by planning and leading 3 interview workshops, 6 graphically appealing posters, and by recruiting 7 professional consultants to speak at interview prep workshops. (~30 new members that semester)

Boy Scouts of America, Eagle Scout Aiea HI · *Sep 2009 – March 2016*
Eagle Scout Project - Painted a 50-foot mural depicting Noah's Ark and cleaned the campus of my previous middle school
President's Volunteer Service Award Honolulu HI · *April 2016*
Awarded for completing 100 volunteer service hours within one year's time

ADDITIONAL INFORMATION

Computer: Exploratory Data Science in R and Python, Python Image Processing, SQL, Dash, Pandas, Numpy
Interests: Surfing, Mechanical Keyboards, Stock Trading, Weightlifting, Photography, College Radio, Guitar, PC Building