Conrad Mitchell

conradmitchell465@gmail.com
(440) 465-5202
conrad-mitchell.com

Education

Duke University
Class of 2020
B.S in Computer Science
Minors in Electrical and Computer Engineering and Philosophy
GPA 3.67

Chagrin Falls High School
Class of 2016
GPA 4.45

Honors and Awards

Dean's List
Duke University
Fall 2016, Fall 2017

Computer Science Award
Chagrin Falls High School
Spring 2016

Languages

Java, Python, C, SQL, MATLAB, JavaScript, Machine Language (MIPS), HTML, CSS

Technical Skills

Git, Command Line, Virtual Machines, Google Could Platform, Networks and IT, EAGLE, CAD, Jupyter Notebook, Heroku, Tableau, Logisim

Relevant Courses

-Data Structures and Algorithms
-Software Implementation and Design
-Everything Data
-Computer Design and Architecture
-Multivariable Calculus
-Linear Algebra
-Differential Equations
-Electrical Signals and Systems
-The Python Mega Course (Udemy)
-The Complete Web Developer (Udemy)

Work Experience

Security Systems Engineer Intern: M.C. Dean
Mountain View, CA | May 2018 – August 2018
Supported the integration of security at Google Headquarters by automating the improvement of company-wide employee badging system and security cameras (Python and Google Cloud Platform), conducting analysis of door and card reader data (SQL), and designing testing procedures and workflows for technology evaluations (VMWare and Google Suites)

Project Management Intern: Department of Defense
Vingerkraal, South Africa | May 2017 - August 2017
Contracted providers, designed hardware, curriculum, and assembly processes, trained local teachers, and personally managed a $20,000 DoD funded initiative to distribute do-it-yourself solar generators and educate a community of 400 on the science and construction of solar units

Research

Sea Turtle Lighting Project Lead: Duke Conservation Tech
Durham, NC | September 2017 - Present
Designing and fabricating prototypes of LED devices (EAGLE) to deter sea turtles from swimming into fishing nets as part of a World Wildlife Foundation sponsored project

Elephant Fencing Researcher: Adventures with Elephants
Limpopo, South Africa | September 2017 - May 2018
Designed and conducted analysis (CAD) on a new type elephant fencing for a South African conservation organization seeking to end human wildlife conflict in Namibia

Energy Generation Researcher: Duke Bass Connections
Durham, NC| January 2018 - May 2018
Conducted functional analysis and visualized power output of wave powered variable capacitive energy generators (MATLAB) and presented at the North Carolina State Energy Conference

Volunteering

1401 Restoration Volunteer: Computer History Museum
Mountain View, CA | May 2018 – August 2018
Assisted in maintenance and educational initiatives relating to the IBM 1401 Business Computer

Scholars 2 College Tutor: Emily Kzyzewski Center
Durham NC | September 2017 - Present
Tutoring math and physics and providing homework help for local high school students

Volunteer Consultant: Koolbridge Solar LLC
Durham, NC | August 2017 - March 2018
Preformed studies on market trends, consumer needs, and the current technical landscape of the inverter market for a solar energy start-up and won a consulting symposium hosted by Applied Predictive Technologies for team findings

Projects

Evolutionary Neural Network
Santa Clara, CA | May 2018 - Present
Creating a simple neural net from scratch that receives input from a game environment and teaches itself how to play by evolution and partner learning (Python)

Game Authoring Engine: Duke University
Durham, NC | January 2017 - May 2018
Applied Agile principles to a 10-person team and implemented a 20,000-line program that uses the Entity Component design pattern to allow users to make, store and play games (Java, Git)

North Carolina Election Prediction: Duke University
Durham NC | January 2018 – May 2018
Scraped and cleaned census data to train a Bayesian classification algorithm (Jupyter Notebook and SKLearn) to predict voting outcomes and presented findings (Tableau)

Interdisciplinary Design Challenge: Duke University
Durham NC | January 2017 – May 2017
Built an autonomous robot that network with others (Arduino) and won a 100 person challenge