Jim Palomo

Computer Engineering Student

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About Me

Programming Languages	C/C++, Python, JavaScript, Swift
Software/Tools	Google & Microsoft applications, GitHub
Operating Systems	Windows, Ubuntu/Linux, Crouton
Interests	Computer hardware and software, open-source projects

Work Experience

Research-based Internship for Electrical & Computer Engineering

Intern, Co-Op Aide — Chicago, IL (Summer 2019)

- Working with a College of Engineering professor and PhD student on an open-source project called gem5 a simulation platform for computer-system architecture
- Learned about Object-Oriented Programming for Python and C++
- Established connections of a CPU to its caches to its memory and more

Personal Projects

Raspberry Pi Smart Mirror (May 2019 - Present)

- Developed a raspberry pi smart mirror through Raspbian OS using open source code via Github (only the software is complete)
- Content added: calendar, cryptocurrency stock tracker, weather api, date & time, comments

Le Tour De France - Racer Data Analysis (April - May 2019)

- Created a program that analyzes GPS data (longitude, latitude, elevation) of several racers
- Displayed total GPS data points, faulty GPS data points, linked list GPS data point, total time, max elevation, elevation gained, distance biked, and a formatted time

Topographic Map (April 2019)

- Generated a specified topographic elevation map
- The program determines if the user is on top of a hill based on their location coordinates
- Developed a way for the program to determine the best route to go up or downhill

The Search For Habitable and Inhabitable Exoplanets (March 2019)

- Data obtained from the National Academy of Engineering is analyzed and used to determine if an exoplanet is habitable or inhabitable based on conditions
- Data that was analyzed was represented with histograms

Seating Chart (February 2019)

- Created a seating chart generator in which the user is allowed to defined the amount of rows and columns available.
- Developed two different patterns regarding seating arrangements
- The program counts how many seats are taken

Self-Built Computer (February 2019)

- Hands-on experience in assembling a computer from scratch
- Researched about the artchitecture of the computer and the process of connecting each piece together.
- Troubleshooted issues that occurred through examination and research.

Education

University of Illinois at Chicago Chicago, IL (2018–Present)

- Bachelor of Science in Computer Engineering
- Cumulative GPA: 4.0

Antioch Community High School Antioch, IL (2014–2018)

- Cumulative GPA: 4.0
- Part of Mu Alpha Theta
- AP Scholar with Honors