

CELINA PERALTA

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Skills

PROGRAMMING

Java
Python
C++

TECHNOLOGIES

Git
Arduino
Excel
Linux

WEB DEVELOPMENT

PHP
MySQL
Flask
HTML/CSS/JS
Node.js

Volunteering

Beyond the Margins ·

Webmaster
Present
Performing Wordpress site improvement and maintenance for NYC-based education startup aiming to help youths discover their career interests and succeed in higher education.

Awards

First Overall Hack (Rebust)
Apr. 2019
RidgeHacks

National Honor Society
2018

National Spanish Honor Society
2018

Gold Key in Poetry
Dec. 2015
Scholastic Art and Writing

Education

Stevens Institute of Technology

B.S. Computer Science

Honors: Pinnacle Scholar, Dean's List

Activities/Clubs: oSTEM, Filipino Association at Stevens Tech (FAST), Google DSC

GPA: 3.778

Aug. 2019 - May 2023

Bergen County Academies

Academy for Technology and Computer Science

Cumulative GPA: 3.932 | SAT: 1510

Sept. 2015 - June 2019

Industry Experience

Recon Industrial Controls Corporation · Engineering Intern

Englewood, NJ

Sept. 2018 - June 2019

- Utilized Arduino photoelectric sensors to detect damage taken in video games by tracking red flashes and hues.
- Designed C programs for Arduino WeMos robots used in undergraduate classes at Stevens Institute of Technology.

T.E.C.H. Camp · Student Teacher

Bergen County Academies

Aug. 2018

- Developed lesson plans that incorporated mandated topics and included immersive activities for student engagement.
- Taught introductory theoretical computer science topics such as boolean logic and number systems to middle school girls during a week-long STEM camp.

BCA Web Apps · Web Development Intern

Bergen County Academies

June 2016 - Sept. 2018

- Led development of a teacher proctoring registration application with automated reminder e-mails using a PHP/MySQL back-end stack along with the Sendgrid API.
- Maintained existing applications and implemented uniform designs in HTML and CSS.

Projects

Clinical Outcomes Checker

Sept. 2018 - May 2019

- Updated and optimized a Gradle application for verifying clinical tests for cancer developed by researchers from Broad Institute and Dr. Yujin Hoshida (Mount Sinai, UT Southwestern). Improved user experience of the application using the Materialize framework and optimized analysis algorithm time.

Rebust

Apr. 2019

- Rebust is an online rebus puzzle solver that runs on a Flask server with Clarifai and Datamuse. Rebust takes user input, a rebus, in the form of image files and text, parses the input into phonetic strings, and outputs likely solutions in English to the original puzzle. Will likely continue development as a research project.

Miller-Urey Webcam Stream

Jan. 2019

- Created a Java-based webcam streamer application for use in the Recon Industrial Corp. makerspace's Miller-Urey experiment livestream.

TR-808 Drum Machine Emulator

May 2017

- Worked with a classmate to create a Java-based virtual drum machine modeled after the Roland TR-808 for our AP Computer Science class.

Activities

Filipino Association of Stevens Tech · External Public Relations

Present

- Coordinate with 25 schools in Greater New York Area to organize social events centered around the Filipino culture.
- Kickstarted professional development workshop series for Filipino students in collaboration with FASTER, a Filipino organization based in Silicon Valley.

FIRST Robotics · Team 6203 Programming Team Captain

- Carried out responsibilities such as creating and teaching Java curriculum and organizing subteams during the season.

Mission Music · Co-President

- Organized benefit concerts and in-school activities to raise money for music education for underprivileged kids.