

Kevin Velasquez

[linkedin.com/in/kevinvelasquez9](https://www.linkedin.com/in/kevinvelasquez9) | velasquezkevin@icloud.com | kevinvelasquez.com | github.com/kevinvelasquez9

EDUCATION

Johns Hopkins University, Baltimore, MD

Expected May 2023

Computer Engineering: Bachelor of Science

Cumulative GPA: 3.65 / 4.00

Honors/Awards: Code2040 Finalist (2020), Dean's List (2019 – Present), Fred Schaufeld Scholarship Program (2019 – Present), College Board's National Hispanic Recognition Program (2018)

Relevant Coursework: Data Structures, Object-Oriented Java, MATLAB Computational Modeling, Programming in C/C++

SKILLS

Languages: English (fluent), Spanish (intermediate)

Programming: Java, Python, C, C++, JavaScript, HTML, CSS

EXPERIENCE & PROJECTS

Johns Hopkins University Applied Physics Laboratory, Baltimore, MD

April 2020 - Present

Machine Learning Intern

- Parsed a data set with Pandas and crafted a Python script for the team to download over **200,000 images** into labeled directories.
- Built a **TensorFlow** image classifier that can distinguish between 7 categories of emotions in photos.
- Implemented **creative adversarial networks** to transform images to a different emotion by using a discriminator and generator.

Sorting Visualizer – kevinvelasquez.com/sorting-visualizer

August 2020

- Deployed a website visualizer with HTML and CSS to display sorting algorithms on an array of bars.
- Performed **Bubble Sort** and **Insertion Sort** using vanilla JavaScript for viewers.

Password Manager

July 2020

- Used Python Tkinter framework to make a GUI for managing account logins.
- Integrated **user authentication** by requesting the user to set an admin password on first visit.
- Visualized the **SQLite** database and allowed admin to create, update, and delete entries.

Sudoku Solver

July 2020

- Created a sudoku solver in Python that can solve an expert-level board in less than a second.
- Implemented a **backtracking algorithm** that employs recursion.

Heat Distribution

October 2019

- Created a Java GUI that **visualizes heat distribution** across a metal plate given a user's text file.
- Incorporated an algorithm to recursively update each cell's temperature according to its surroundings and simulated the final image with the Picture library.

LEADERSHIP & AFFILIATIONS

Society of Hispanic Professional Engineers, Baltimore, MD

November 2019 – Present

Activities Chair, Mentor

- Coordinated professional and social events for over 25 members on campus to increase membership involvement and establish campus presence.
- Launched a program, MentorSHPE, in collaboration with the Whiting School of Engineering Office, to pair incoming underrepresented engineering students with upperclassmen and provide them with academic guidance.

FIRST Robotics Team, Westbury, NY

November 2016 – March 2019

- Competed annually at the local FIRST Robotics competition against neighboring towns and international teams.
- Collaborated on the mechanic squad for FIRST Steamworks 2017, FIRST Power Up 2018, and FIRST Deep Space 2019 to design and develop the robot's functionality and build.

Qbean Graphic Design, Westbury, NY – [imgur.com/a/z6\[yi](https://imgur.com/a/z6[yi)

May 2017 – September 2017

Founder, Graphic Designer

- Utilized Adobe After Effects and Photoshop to develop freelance animation projects for online clients.
- Increased exposure of the business by building a portfolio and website with over 1,100 views.

Other Affiliations: Fred Schaufeld Scholarship Program, IEEE, MedHacks, Men of Color at Hopkins Alliance