

# Kevin Velasquez

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## EDUCATION

**Johns Hopkins University**, Baltimore, MD  
Computer Engineering: Bachelor of Science

Expected: May, 2023  
Cumulative GPA: 3.65 / 4.00

**Programming Languages:** Java, Python, JavaScript, HTML and CSS

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

## EXPERIENCE & PROJECTS

**Johns Hopkins University Applied Physics Laboratory**, Baltimore, MD

April 2020 – Present

*Machine Learning Intern*

- Organized a CSV data set with the Pandas library 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 that are portrayed in photos.
- Implemented creative adversarial networks to transform images to a different emotion by using a discriminator and generator.

**Sorting Visualizer** [Link](#)

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

**Password Manager**

- Used Python Tkinter framework to make a GUI for managing account logins.
- Integrated user authentication by requesting the user to create an admin password on first visit.
- On future use, admin password is required before being able to see and edit the visualized SQLite database.

**Sudoku Solver**

- 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**

- Created a Java GUI that simulates 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 visualized 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 mentorship 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 [Link](#)

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, HopHacks, IEEE, MedHacks, Men of Color at Hopkins Alliance

## SKILLS & INTERESTS

**Languages:** English (fluent), Spanish (intermediate)

**Interests:** Cooking, Fashion, Fitness, Graphic Design