

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