Emilia N. **Ochoa**

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Education

Johns Hopkins University *Baltimore, MD*

B.S. Computer Science and Political Science – *double major* *Aug. 2019 - (Exp.) May. 2023*

- *Relevant Coursework*: Data Structures, Databases, User Interfaces and Mobile Apps, Full-Stack JavaScript
- Received the merit-based L. Gordon Croft Endowed Scholarship, and a scholarship from the National Hispanic Scholarship Fund
- Currently serves on the executive board of the *Society of Hispanic Professional Engineers (SHPE)* at JHU, and the *JHU College Democrats*

Carnegie Mellon University *Pittsburgh, PA*

Advanced Program/Early-Admission Pre-College *Jun. 2018 - Aug. 2018*

- Earned a full merit-based scholarship based on previous academic work to enroll in university-level courses including Fundamentals of Programming and Sustainable Social Change

Work Experience

Johns Hopkins University Applied Physics Laboratory (APL) *Laurel, MD*

CIRCUIT Fellow *Apr. 2021 - PRESENT*

- Participated in a year-long intensive cohort-based research program, where I worked on data analysis and machine learning projects for federal sponsor
- Built multiple machine leaning pipelines that execute from raw data input
- Enhanced experience with several tools and solutions such as Git, Numpy, and Pandas

WW x Girls Who Code Work Prep *Remote*

April 2021 Cohort Member *Apr. 2021 - Apr. 2021*

- GWC Work Prep is an experiential learning program that is designed to build career skills, and introduce members to different areas in tech.
- Engaged in a number of intensive workshops spanning topics including: Data Science, Data Engineering, Product Management, Quality Engineering, and Web Development

Quest 2 Learn *Remote*

UI Development Team *Aug. 2020 - Dec. 2021*

- Worked with inter-disciplinary team of undergraduates to implement the User Interface for the Quest 2 Learn App through Unity

Skills

Programming	Python, SQL, Java, R, C, C++, JavaScript (React, Node.js), HTML/CSS
Topics	Machine Learning, Full-Stack Engineering, Git, Mobile App Development, Object Oriented Programming, Agile Methodology
Data Analytics Tools	Python Libraries (Pandas, NumPy, scikit-learn, InterpretML, Seaborn), Jupyter Notebook, MongoDB, MySQL, Google Firebase
Languages	English, Spanish

Projects

BISM Production Management App *Baltimore, MD*

App Developer *May 2021*

- Worked with a team to develop an Android app for Blind Industries and Services of Maryland, that outputs production data in accessible ways to associates and managers
- Gained valuable experience in app development, user research, and Agile framework

Spotify Database Exploration *Baltimore, MD*

Developer *May, 2021*

- Employed open source datasets from Billboard Hot 100 and Spotify's API to develop web interface, as well as a series of interactive SQL queries to explore musical trends over time
- Developed interactive website using PHP, HTML, and CSS that allows users to query music data and create interactive data visualizations

Spanish-English Translator *Baltimore, MD*

Developer *Dec. 2019*

- Built speech-to-speech translator using Google Translate's API as a final project for Multilingual Natural Language Processing course