

Emilia N. Ochoa

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Education

Johns Hopkins University

Baltimore, MD

B.S. COMPUTER SCIENCE AND POLITICAL SCIENCE

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 learning 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

Virtual

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

Law Office of Steven D. Kupferberg

Rockville, MD

INTERN

Apr. 2017 - May 2019

- Communicated with clients, manage the input and analysis of billing data, assist in filing, copies and faxes
- Honed skills in Microsoft Office and other workplace essentials

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

- Work 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

Digital Slit Scan Camera Capstone Project

Bethesda, MD

DEVELOPER

Nov. 2019

- Implemented a Slit Scan camera through Processing—an open source language for generative art—for my senior capstone project for the APEX program at Walter Johnson High School