

Jesse F. Warren V

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Portfolio: <https://jessewarren.net>

Education

Duke University **Durham, North Carolina**
Master of Engineering, Artificial Intelligence for Product Innovation August 2024 – July 2025
Relevant Courses: Modeling Process & Algorithms, Sourcing Data for Analytics, Optimization in Practice, Business Fundamentals for Engineering

Lehigh University **Bethlehem, Pennsylvania**
Bachelor of Science, Computer Science and Business August 2020 – May 2024
Cumulative GPA: 3.37
Relevant Courses: Fundamentals of Artificial Intelligence, AI in Game Programming, Computer Vision, OS Design, Computer Architecture, Information Systems, Analysis of Algorithms, Software Engineering, Database Systems, Web Systems Programming

Study Abroad **Barcelona, Spain**
Courses: Computers the Internet and Society May 2022 – July 2022

Certifications
[PCEP-30-02] PCEP – Certified Entry-Level Python Programmer Acquired August 2023

Work Experience

Federal Communications Commission **Washington, D.C**
Public Safety and Homeland Security Bureau (PSHSB)
Data Analytics Intern June 2023 – January 2024

- Developed API functions to filter json data for date/time ranges, data types, etc
- Streamlined processes to convert json and xml data into a csv format using scripts
- Deployed a Dashboard using PowerBI to analyze the data and developed user manuals
- Briefed all levels of the PSHSB including a special briefing for the Bureau Chief

Elsetic **Barcelona, Spain**
Software Engineer Intern May 2022 – July 2022

- Managed the production of the company's newest app project during the design stage, development process, and pre-release and conducted product testing with unit tests
- Attended weekly supervisor meetings and delegated tasks to team members whose strengths matched the assignment

Projects

Computer Vision Course Project **Bethlehem, Pennsylvania**
Developer February 2024 – May 2024

- Developed and implemented an automated reCAPTCHA solver utilizing YOLOv5 for object detection, achieving a 51.97% accuracy in object recognition
- Scraped and labeled a dataset of over 5,000 images, employing data augmentation techniques to enhance the model's training set and improve its generalization

Skillion Hawkeye Capstone Project **Bethlehem, Pennsylvania**
Developer and Product Owner February 2023 – December 2023

- Created and evaluated a YOLO-based model capable of detecting road hazards and potential dangers in real-time to enhance cyclist safety
- Led bi-weekly agile sprint reviews with our project sponsor to monitor progress

Skills and Abilities

Proficient Languages: Python, Java, C, C++, C#, Sql, R, html, css, Java script, Rust

Software: Azure, AWS, Kubernetes, Adobe Studios, GitHub, GitLab, Android Studio, PowerBI