# DAVID ARAUJO

Nazareth, PA 18064
484-544-1198
contact.davidaraujo@gmail.com
**WWW:** https://davidaraujo.me/

## EDUCATION

**BACHELOR OF SCIENCE**: COMPUTER SCIENCE                    Expected in 05/2026
**The Pennsylvania State University**, Harrisburg, PA
- Capitol Honors College
- Dean's List Fall 2022
- Entrepreneurship and Management Club - Secretary (Fall & Spring 2022 - 23)
- THON - Donation Box Captain (Fall 2022)

## SKILLS

- Python
- Django
- Java
- Spring Boot

- JavaScript
- React
- HTML & CSS
- Machine Learning

## PROJECTS

**Online Pet Store - 2023 ~** https://spring.davidaraujo.me/
**Spring Boot, Java, OOP**
- This pet store website, developed for my OOP course, demonstrates Java Spring Framework's capabilities in creating dynamic, secure web applications. It features public access to informational pages and authenticated functions for managing pet listings, showcasing my skills in Spring Security and OOP principles.

**Digit Recognition** - **2023 ~** https://davidaraujo.me/predict/
**Django, Python, Machine Learning & AI**
- Site permits user to draw any number from 0-9, and utilizes a model which was trained on the MNIST dataset to classify which number is being drawn.

**MC REU - Summer 2023**
**Penn State Multi-Campus Research Experience for Undergraduates**
- Awarded Top Overall Poster
- Explored the user of cross-scale token aggregation and spatial-channel mixing for a Vision MLP backbone.

## COURSEWORK

**CMPSC 421 - Spring 2024 (On-going)**
**Net-centric Computing**
- This course delves into JavaScript and AJAX for crafting Rich Internet Applications, alongside XML for effective client-server communication and Web Services. It covers Dynamic XHTML, CSS, and AJAX for client-side development and explores XML and JSON for data transmission between server and client, highlighting their roles in modern web application design.

**CMPSC 221 - Fall 2023**
**Object Oriented Programming with Web-Based Applications**
- Major topics include virtual machines, intermediate code generation (Java-specific), graphical user interfaces (GUI) design, event handling, server-side programming with database queries, and security, permissions and file management concepts for client/server systems.

**CMPSC 132 - Spring 2023**
**Programming and Computation II: Data Structures**
- Introduces the foundations of object-oriented programming, the design and analysis of efficient algorithms using important data structures, and programming techniques that support reusable and modular program components, including data abstraction, polymorphism, and higher-order functions.