

Penn State Abington
Philadelphia, PA

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EDUCATION

The Pennsylvania State University, Abington, PA
B.S. in Computer Science

Expected Graduation: December 2023
Major GPA: 4.00 / Cum GPA: 4.00

Rowan College at Burlington County, Mount Laurel, NJ
A.S. in Computer Science

May 2021
Major GPA: 4.00 / Cum GPA: 4.00

TECHNICAL SKILLS

- Proficiency with these programming languages:
 - Python, Java, C/C++, Golang, SQL, MongoDB, HTML, CSS, JavaScript - Node.js, PHP, Plait/Racket, Assembly (x86 processors).
- Application program interfaces and libraries experience:
 - Bootstrap, jQuery, Express.js, EJS, Laravel, Flask, Mongoose, PyQt5, VSCode, Git, Spotify, Docker.
 - Operating Systems: Windows, MAC OS, and Linux.

SOFTWARE EXPERIENCE

Avo Photonics, Horsham, PA

Junior Software Engineer

On-site

January 2024 - Present

- Designing, implementing, and maintaining software solutions, particularly in manufacturing data traceability.
- Adept in leading CI/CD for on-premises systems.
- Capable of gathering UI requirements and collaborating with operations and engineering teams for optimal design.
- Providing continual software support throughout the project lifecycle.

Multi-Campus Research Experience for Undergraduates, The Pennsylvania State University

Undergraduate Researcher

Hybrid

May – August 2023

- Boosted data extraction efficiency by 50% using advanced machine learning, vision algorithms, and multithreading.
- Introduced the Convolutional Recurrent Neural Network (CRNN) deep learning model.
- Customized the Optical Character Recognition (OCR) algorithm for improved text recognition.
- Utilized the Open Food Facts API to process and analyze over 100,000 unique data entries, resulting in a 20% increase in data accuracy.
- Implemented a text only RNN model, further refining the extraction process.

EXPERIENCE

The Division of Science & Engineering, Penn State Abington

STEM Teaching Assistant

Abington, PA

August 2023 – September 2023

- Collaborated with faculty to ensure smooth class operation and addressed student queries to assist with their learning comprehension.
- Leveraged cultural competence to create a welcoming and inclusive classroom setting, promoting diverse perspectives.
- Implemented organizational strategies to coordinate class activities and responsibilities, promoting a structured learning environment.

Advising Center, Penn State Abington

Peer Adviser

Abington, PA

April 2022 - Present

- Assist students with scheduling courses, understanding degree requirements, and navigating academic procedures.
- Answer phone calls with respect for confidentiality and address student questions or concerns regarding advising.
- Implement student adviser assignments and handle emails from students and faculty.

PUBLICATION

The International Journal of Artificial Intelligence & Applications (IJAIA)

March 2024

- "Information Extraction from Product Labels: A Machine Vision Approach," with Vinayak Elangovan. International Journal of Artificial Intelligence & Applications, 2023.
- This [paper](#) presents a distinctive approach that combines CNNs and RNNs into a CRNN, integrated with Tesseract OCR, aimed at automating the extraction of information from product labels.