Hansi Seitaj

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PROFESSIONAL EXPERIENCE

Junior Software Engineer   **January 2024 - Present**
Avo Photonics   *Horsham, PA*
- Designing, implementing, and maintaining software solutions, particularly in manufacturing data traceability.
- Proficient in MongoDB, Python, HTML, JavaScript, CSS, Docker.
- Collecting back-end and UI requirements while collaborating with operations and engineering teams to achieve an optimal design
- Reviewing and ensuring that code adheres to company standards and best practices.

Undergraduate Researcher   **May – August 2023**
The Pennsylvania State University   *Hybrid, Abington, PA*
- 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.

WORK EXPERIENCE

STEM Teaching Assistant   **August – September 2023**
The Pennsylvania State University - Abington   *Abington, PA*
- Collaborated with faculty to ensure smooth class operation and addressed student queries to assist with their learning comprehension.
- Implemented organizational strategies to coordinate class activities and responsibilities, promoting a structured learning environment.

Peer Adviser   **April 2022 – December 2023**
The Pennsylvania State University – Abington Advising Center   *Abington, PA*
- Assisted students with scheduling courses, understanding degree requirements, and navigating academic procedures.
- Answered phone calls with respect for confidentiality and addressed student questions or concerns regarding advising.
- Implemented student adviser assignments and handled emails from students and faculty.

TECHNICAL SKILLS

- **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:**
  - Bootstrap, jQuery - Express, EJS, Jinja, Laravel, Flask, Mongoose, PyQt5, Visual Studio, GitLab, Spotify, Docker.
- **Operating Systems:** Windows, MAC OS, and Linux.

EDUCATION

The Pennsylvania State University, Abington, PA   **December 2023**
B.S. in Computer Science   Major GPA: 4.00 / Cum GPA: 4.00

Rowan College at Burlington County, Mount Laurel, NJ   **May 2021**
A.S. in Computer Science   Major GPA: 4.00 / Cum GPA: 4.00

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.