JOHN V PEREIRA

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EDUCATION

UNIVERSITY OF AKRON — Akron, OH

BBA in Information Systems | Minor: Computer Science — Expected: Dec 2026

Artificial Intelligence and Machine Learning – Undergraduate Certificate

Relevant Coursework: Applied ML, AI & Heuristic Pgmg, Computer Science I & II, Database Mgmt, Systems Analysis & Dsgn

WORK EXPERIENCE

PRODUCT MANAGEMENT CO-OP — Strongsville, OH

Schaeffler — Jan 2026 – Present

- Support new product development by gathering requirements, analyzing user needs, and prioritizing features.
- Conduct market and competitor research, delivering reports and presentations to inform product strategy.
- Analyze product and operational data to support feature prioritization, customer requests, and improvements.
- Support product planning by preparing analyses and documentation for customer requests and roadmap discussions.

AI & MACHINE LEARNING EXTERN, OUTAMATION INC. — Remote

Extern — Sept 2025 – Dec 2025

- Build Python pipelines (PyPDF2, PyMuPDF, pdfplumber) to extract key data from unstructured PDFs.
- Apply NLP + LLMs (HuggingFace, LlamaIndex, FAISS) to develop AI-powered document search tools.
- Implement OCR + computer vision methods (Tesseract, EasyOCR) for accurate mortgage data parsing.
- Design Retrieval-Augmented Generation (RAG) pipelines to enhance large-scale document retrieval.
- Prototype Gradio chatbot integrating RAG pipelines, enabling interactive PDF-based Q&A systems.

IT INTERN — Solon, OH

MFS Supply — May 2025 – Aug 2025

- Built a NetSuite calendar in JavaScript to track purchase orders and improve order visibility and tracking efficiency.
- Designed Freshdesk automations, canned replies, and workflows, cutting manual workload and speeding responses.
- Resolved 100+ IT tickets monthly while supporting 250+ employees across hardware and software.
- Repaired and maintained 10+ machines weekly, minimizing downtime and ensuring reliability.

RESEARCH

UNDERGRADUATE RESEARCH ASSISTANT – COMPUTER VISION — Akron, OH

The University of Akron — Jan 2026 – Present

- Implement YOLOv8/YOLOv10 object detection models in Python and PyTorch for applied computer vision research.
- Train, tune, and evaluate models using real-world datasets, analyzing accuracy and deployment performance.
- Design preprocessing pipelines and experiments to improve detection robustness and model generalization.
- Document results in a formal research report with planned academic publication under faculty supervision.

PROJECTS

BEST-SELLING BOOK PREDICTOR ➤

- Built ML models (Linear Regression, Random Forest) using Python, Pandas, scikit-learn, seaborn.

PYTHON SPACE INVADERS GAME ➤

- Developed a 2D arcade game with Python, Pygame, and OOP design principles.

TECHNICAL SKILLS

Programming Languages: Python, C++, C#, .NET, SQL (MySQL, SQLite, Oracle)

Tools & Platforms: Git/GitHub, SQL Developer, Oracle Data Modeler, Tableau, Alteryx, JMP, Microsoft Admin Portal, NetSuite, Freshdesk Automations

Certifications: Introduction to AI with Python (Domestika)**,** Learning Git and GitHub (LL), SQL Essential Training (LL)