

Austin Doolittle

Machine Vision Engineer

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Summary

A Software Engineer with a deep fascination for all things Machine Learning and a track record of robust application development and support. Implemented numerous Computer Vision Machine Learning algorithms and continuously monitors academic resources for the newest algorithms and ideas.

Experience

- Machine Vision Software Engineer** | Gentex Corporation | Zeeland, MI 06/2017 - Present
- Design, implement, and support Machine Vision applications using VB.NET and HALCON Machine Vision library
 - Design and implement architecture for data collection, model training, deployment, and local inference using C#, Python, Docker/Kubernetes, MongoDB, and C++
 - Educate fellow engineers on Machine Learning algorithms
 - Monitor academic research, identify and implement relevant algorithms
 - Implement numerous algorithms in different machine learning frameworks, listed on back
- Software Developer** | Industrial Service Technology | Kentwood, MI 11/2015 - 06/2017
- Develop applications to interface to legacy Warehouse Management Software LOGICS
 - Work in the .NET environment, primarily Web and Windows Forms applications
 - Support new software rollout via email, phone, and in-person communications
 - Work remotely with development teams, both domestic and international
- Desktop Support Technician** | GVSU Information Technology | Allendale, MI 09/2015 - 11/2015
- Resolve issues with GVSU technology
 - Set up and repair computers (PC and Mac) and their peripherals
 - Manage and prioritize multiple service requests through ITSM software Cherwell
- Level 1 Helpdesk Technician** | GVSU Information Technology | Allendale, MI 11/2013 - 11/2015
- Support Grand Valley Staff, Students, and Faculty through email, phone, and face-to-face communication
 - Prioritize tickets through ITSM software Cherwell
 - Train new employees and contributed to quarterly training meetings

Education

- Master of Information and Data Science** | University of California, Berkeley | Berkeley, CA Begins 01/2019
- Online program
 - Recently admitted
- Bachelors in Computer Science** | Grand Valley State University | Allendale MI 09/2013 - 04/2017
- Member of the Frederik Meijer Honors College
 - Participant of ACM International Collegiate Programming Competition
 - Recipient of Grand Valley Award of Excellence and Grand Valley Faculty Scholarship
 - 3.478 GPA | 2 Dean's List Appearances
 - Relevant Coursework:
 - Honors Senior Project: Neural Network written in C++ that classifies music by its genre (Source on GitHub, paper available upon request)
 - CIS 678 - Machine Learning: Graduate-level machine learning course covering Decision Trees, Reinforcement Learning, Neural Networks, and Evolutionary Algorithms

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Additional Information

Language Experience

- C#/VB.NET
- Python
- C/C++

ML Algorithms/Frameworks

- Classification (Tensorflow, PyTorch, MxNet, Caffe)
- YOLO Localization (MxNet, Darknet)
- FCN Segmentation (MxNet)
- DeepLab Segmentation (MxNet)
- GradCAM (MxNet, PyTorch)
- Guided Attention Inference (MxNet, Pytorch)
- One-Shot Detection with Siamese Networks (TensorFlow)

Interests

- Music Production
- Video Games
- Disc Golf
- Racquetball
- Running & Fitness