

Jack Volonte

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University of Portland – May 2024

BS Computer Science

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github.com/jackvolonte

Portfolio: jackvolonte.com

Skills

- **Languages** | Python, C#, Java, SQL, C, C++, Git/Github, JavaScript, HTML, CSS, Lua
- **Technologies** | .NET, Azure SQL, Docker, NodeJS, React, Selenium, xUnit
- **Development Tools** | Linux, Visual Studio, PyCharm, Android Studio, Flask, Roblox Studio
- **Topics** | ML, AI, Neural Networks, Databases, Algorithms, Data Structures, Software Testing, Operating Systems, Software Development, Agile Development, Cloud Computing, Game Development, Data Analysis and Visualization

Work History

Executive Director

Self Employed, Darkanddarker LLC, Portland, OR

January 2023 - October 2023

- Built a digital store from the ground up to sell items for the online game "Dark and Darker".
- Created a Python-based system to automate inventory synchronization between a Shopify store and a cloud-based database, allowing for real-time updates across all systems.
- Grew a non-existent client base from 0 customers to over 5,000.
- Optimized the customer experience to bring the conversion rate of site visitors from 1% to 4%, leading to \$35,000+ in revenue.
- Recruited and hired 8+ employees to handle the growth of the business.

Product Development Manager

Realmstock LLC, Remote

April 2020 - September 2022

- Led the development of a C# .NET-based solution to automate product-creation interfaces, generating more than \$60,000 in digital inventory.
- Developed Python-based inventory tracking software to streamline operations.
- Managed inventory and workflows while overseeing a team of 3+ employees.

Projects

Capstone Project - Augmented Reality Tool for Electromagnetic Waveforms

August 2023 - May 2024

- Collaborated with Tektronix to develop an AR tool for visualizing electronic waveforms using Microsoft's HoloLens.
- Utilized C# and Unity to render live waveform data and predict future waveforms through an RNN model - built with JAX, Tensorflow, and Keras.
- Designed and managed a MySQL database storing 2.5 million+ data points for model evaluation and training.
- Applied Agile methodologies to coordinate progress and work with client.

Aurora Image Classification with a Perceptron Model

- Developed a perceptron model in Python to classify night sky images based on the presence of the aurora, achieving up to 99% accuracy on test sets.
- Preprocessed image data by extracting and normalizing color histograms (RGB).
- Optimized learning rates and batch sizes to improve classification performance.