Alexander J. Passanante

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Work Experience

United States Air Force (USAF), Aircrew Flight Equipment Supervisor

2016-2021
- Supervised shop operations, trained personnel on tasks, ensured quality of personnel work to guarantee continued operational readiness.
- Led a successful overhaul of the supply ordering and storage system, reducing waste and improving logistical speed.
- Led tool calibration programs, supply chains, and vehicle maintenance, ensuring operational readiness across the unit.

USAF, Aircrew Flight Equipment Technician

2016-2019
- Inspected and maintained over 400 pieces of critical flight equipment, directly supporting mission readiness and pilot safety.
- Trained and assisted pilots in the proper fit and use of helmets, oxygen masks, and survival vests.

Advantech Japan, AI Integration Intern

2024
- Created documentation and workflows for implementing and training computer vision AI models on proprietary hardware adding value to sales items.

Pipeworks Studio, Game Development Intern

2025
- Implemented and designed an inventory subsystem for a future game saving overall development time.

Projects

Bike Share Forecasting Website
- A site to forecast share bike availability given open data provided by a bike share site.
- Using a tech stack of Python, Flask, SQLite, and Docker.

Rabbit in the Maze Game
- A maze exploration game set in a randomly generated maze. The goal is to find the key and return to the start.
- Made in Unity and programmed in C#.

Education

University of Oregon
B.S. in Computer Science and Japanese
2022 - 2025

Chemeketa Community College
Associates of Arts Oregon Transfer Degree
2013-2015, 2021-2022

Community College of the Air Force
Associates of Aircrew Safety Systems Technology
2016-2021
- Attended Airmen Leadership Academy to prepare for supervisory responsibilities.

Skills

Technical Skills
- Programming: C, C#, C++, and Python
- Tools & Systems: Git, Unix, Docker, Flask, Unity, SQL

Languages
- Conversational Japanese