Victor Tishkevich

vtishkev@andrew.cmu.edu | (425) 373-6102 | https://victor-tishkevich.github.io/portfolio/ | Bellevue, WA

EDUCATION

Carnegie Mellon University — Pittsburgh, PA
Master of Science in AI Engineering – Mechanical Engineering — Graduation: December 2026
GPA: 3.89 / 4.0
Current Coursework: LLM and Agent Applications, Computer Vision, Deep Learning for Engineers

Purdue University — West Lafayette, IN
Bachelor of Science in Mechanical Engineering — Graduation: May 2025
Relevant Coursework: Machine Design, Principles of Manufacturing, Data Science with Python, Distributed Energy Resources

SKILLS

Software: Python, Docker, REST APIs, C/C++, PyTorch, PySpark, OpenCV, SQL, Scikit-learn, GCP, Microsoft Azure, OAuth 2.0
Engineering: Autodesk Inventor, MATLAB, Fusion 360, 3D Printing, LabVIEW, Simulink

EXPERIENCE

Carnegie Mellon University – Computational Engineering & Robotics Laboratory (CERLAB) — Pittsburgh, PA
Research Assistant — September 2025 – Present

- Automating 2D engineering drawing processing for custom manufactured part submissions for MISUMI Manufacturing
- Responsible for engineering a 3D reconstruction pipeline by creating 2D wireframes from 2D engineering drawing SVG files and training a PyTorch model to accurately reconstruct them into fully ready 3D STEP CAD model files to eventually allow for automated manufacturing cost predictions

Invent — Bellevue, WA
Intern (Cloud Software Developer) — June 2024 – August 2024

- Optimized company's invoice management by developing Python back-end code for a billing micro application using BILL.com APIs, and containerized the service in a Docker container that was later integrated on the Invent platform
- Implemented OAuth user authentication using Microsoft Azure AD / Entra to ensure app security
- Collaborated with front-end developers to design micro application components integrated with app APIs, improving user experience and reducing interface errors

CERTIFICATES

AWS Cloud Practitioner Essentials — Amazon Web Services | November 2025
Fundamentals of Accelerated Data Science — NVIDIA | November 2025

ACADEMIC PROJECTS

Cyber-Attack Detection Model Pipeline — Pittsburgh, PA
Carnegie Mellon University — October 2025 – December 2025

- Developed a machine learning pipeline on the MQTT dataset using SparkSQL to ingest data, SparkML and PyTorch to create various machine learning models, and Google Cloud Platform to deploy the code on the cloud

OCR Receipt Budgeter Application — Pittsburgh, PA
Carnegie Mellon University — October 2025 – December 2025

- Collaborated in a team of 4 to create a full stack receipt scanning and budgeting application using OpenCV and EasyOCR to store receipt data, FAST API backend with React frontend to create the app, and Docker to containerize it

Small Engine Dynamometer — West Lafayette, IN
Purdue University — January 2025 – May 2025

- Engineered a custom tabletop engine dynamometer for 50-150 cc engines, integrating 3D printing and machining methods with purchased parts to deliver a horsepower measurement system
- Took initiative in leading design efforts within a 5-member team by modeling project prototypes and custom parts in Fusion 360, ensuring proper assembly fit and accurate fabrication