Lueji Phaphety

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EDUCATION

Northeastern University, Portland, ME **January 2027**
MS in Applied Machine Intelligence

University of Southern Maine, Portland, ME **May 2016**
BS in Technology Management

TECHNICAL SKILLS

Design & Engineering: AutoCAD (Advanced), FROGS (Proficient), GIS (Intermediate), Fiber/Copper Network Design
Technical: Python (Intermediate), SQL (Basic), Data Analysis, Excel, CAD Drafting
Professional: Problem-Solving, Time Management, Project Management, Client Collaboration

PROFESSIONAL EXPERIENCE

Mountain LTD, New Gloucester, ME **March 2022 – September 2024**
Engineering Assistant

- Designed 30+ fiber/copper networks using AutoCAD/FROGS, contributing to regional connectivity expansion
- Increased permit approval rate by 25% through accurate CAD plan creation and field note interpretation
- Optimized design processes with templates that decreased drafting time by 15%
- Collaborated with engineers and clients to resolve design challenges, reducing project delays

City of Portland - Sustainability & Economic Development, Portland, ME **May 2019 – August 2019**
Graduate Intern

- Consolidated utility data from 50+ municipal buildings, identifying potential annual energy savings of $12,000
- Created visualization dashboards to track progress toward One Climate Future initiative goals
- Supported evaluation of TIF proposals and streamlined business recruitment procedures

University of Southern Maine, Portland, ME **August 2014 – May 2021**
IT Help Desk Team Lead

- Led team of 6 support technicians, resolving 200+ monthly tickets with 98% satisfaction rating
- Implemented new training program for student workers, reducing onboarding time by 40%
- Maintained IT systems serving 8,000+ students and faculty members

PROJECTS

Northeastern University, Portland, ME Feb **2025 – Apr 2025**

Breast Cancer Prediction—Machine Learning Project

- Built a predictive model for breast cancer classification using machine learning techniques.
- Conducted feature engineering, model training, and cross-validation for reliable performance.
- Deployed workflow in a live Hugging Face environment with visualization and feature importance analysis.

Pet Re-Identification (Pet_ReID)—Deep Learning Project May 2025 – Jun 2025

- Designed a deep learning system for pet re-identification using **Siamese Networks** and **contrastive learning**.
- Developed pairwise image comparison and lost pet search through image similarity.
- Built with **PyTorch** and **FastAI**, deployed on **Hugging Face Spaces** for interactive use.

Tools:

- Tools: Python, scikit-learn, Hugging Face, Pandas, Matplotlib, Python, PyTorch, and FastAI.
- **Links:** GitHub | Hugging Face