# Peter Sushko

**Computer Vision and Machine Learning** 

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#### **WORK EXPERIENCE**

#### **RAIVN LAB UW**

Student Researcher

- Developed *RealEdit*, a state-of-the-art diffusion-based model for conditional image generation and editing. •
- Built a large-scale dataset of 150K image-text pairs for training generative models. •
- Optimized deep learning architectures for high-resolution image generation and multi-modal alignment. •
- Collaborated with senior researchers to design experiments, analyze results, and refine hypotheses. •

Skills: Generative AI, Diffusion Models, Multimodal Learning, Experimentation, PyTorch, Python

#### Neustar

#### Senior Machine Learning Engineer

- Developed ML models for customer attribution and campaign optimization, improving predictive accuracy. ٠
- Led model development for 6 months, ensuring statistical rigor and alignment with business objectives. •
- Collaborated with research scientists and ML teams to refine models and enhance performance. •
- Presented insights and KPIs to C-suite, translating technical findings into actionable strategies. •

### Skills: Machine Learning, Ranking & Recommendation Models, Model Optimization, Scalable ML Pipelines

### Machine Learning Engineer

- Designed, trained, deployed, and validated ML models to measure marketing campaign efficiency. •
- Improved customer acquisition models, boosting revenue by up to 6% for clients like BofA and Nike. •
- Automated GCP SQL queries, reducing EDA time from 3 days to 5 hours with a Python script. •
- Analyzed pricing sensitivity using ML models, driving higher revenue and new customer acquisition.

### Skills: Model Deployment, Scalable ML Systems, SOL & Cloud Pipelines, Automation & Optimization

### **Palo Alto Networks**

Data Analyst

- Implemented data pipelines to extract insights and KPIs on revenue streams of recent acquisitions. •
- Decreased team workload by 200+ man-hours per month by developing an automated Python script to • generate monthly revenue reports.
- Detected data trends, predicted KPIs, and visualized results with Pandas, Numpy, and Seaborn in Python. •
- Skills: Data Pipelines, Data Wrangling, Data Visualization, Dashboards, Forecasting, SQL, Python.

## Fleer

Data Analyst

- Jun 2017 Aug 2019 Analyzed pricing data by designing, refining and evaluating A/B tests to optimize pricing strategies. •
- Increased new product revenue by record 19% by building an ML model to identify leading drivers of sales. •
- Created Tableau dashboards to visualize key metrics, utilizing an SQL-based data pipeline for data processing. •
- Gathered, extracted and compiled data at scale using ETL pipeline; structured and validated data quality. •

Skills: Pricing Experimentation, A/B testing, ML Modeling, Python, SQL pipeline, Dashboards, Tableau.

#### **EDUCATION**

**University of Washington** *Master of Sciences in Statistics* (3.8) **Coursework:** Experimental Design & Machine Learning

Santa Clara University

Bachelors in Mathematics and Economics (3.6) SKILLS

Technical Skills: Python, R, SQL, C++, hip, TensorFlow, GitHub, PyTorch, Hadoop, Spark, Cloud applications Statistics: A/B Testing, Hypothesis testing, Experimental Design, Kernel Density, Likelihood Estimation Machine Learning and Modeling: Model Building and Deployment, Feature Engineering, Deep Learning, Gen AI

### Seattle, WA

Jun 2023 - current

San Francisco. CA

Dec 2021 - Aug 2022

Mav 2020 - Dec 2021

Santa Clara, CA

Aug 2019 – Mar 2020

Remote

Seattle, WA

Sep 2022- Jun 2024

Sep 2015 - Jun 2019

Santa Clara, CA