

Allison Peng

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Education

University of Washington | Seattle, WA

September 2025-March 2027 (Expected)

- Master of Science in Data Science | GPA: 3.9/4.0

University of California, Davis | Davis, CA

September 2021-June 2025

- Bachelor of Science in Statistics, Minor in Computer Science | GPA: 3.9/4.0

Technical Skills

Programming: Python, SQL, R, C, MATLAB

Data Science & ML: PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Time Series Forecasting, Prompt Engineering, Agentic Workflows

Tools & Systems: Git, CI/CD, APIs, Postman, Google BigQuery, Docker, Cloud Services (Google Cloud, Vertex AI), PostgreSQL, Microsoft Power Automate, Retool, Linux, VSCode, LiDAR

Work Experience

Data Science Intern

June 2026-August 2026

SoCal Edison | Pomona, CA

- Developed and deployed a computer vision model utilizing YOLO and Google Vertex AI for to identify wildfire risks in electric infrastructure from drone footage, improved accuracy by 10%.
- Containerized deep learning models (PyTorch) using Docker to guarantee environment reproducibility across local development and cloud compute.
- Compared model performance with Google BigQuery, presented optimal model results to nontechnical senior management.

AI Prompt Engineer

September 2025-January 2026

Grid Money | Seattle, WA

- Optimized large language model performance via advanced prompt engineering for a Gemini 2.5 Pro agent, increasing financial processing accuracy by 50%.
- Engineered an automated Python evaluation framework to benchmark AI agent outcomes, replacing manual testing and ensuring reliable model deployment.

Computer Vision Research Assistant

July 2022-June 2025

Sumner Lab | Davis, CA

- Developed machine learning pipeline using semantic segmentation and transfer learning to classify Antarctic floor images using TensorFlow framework.
- Used photogrammetry, VR, LiDAR to create 80+ 3D point cloud models and created clustering algorithm for point clouds cluster detection using Python and R.

Software & Data Intern

June 2024-August 2024

Alaska Center for Energy and Power | Fairbanks, AK

- Transformed unstructured data into structured data by performing data exploration and feature selection on electric power system datasets for 3D digital twin modeling using SQL and Python.

Projects

Netflix Churn Prediction (Python, Google Bigquery, Streamlit, Scikit-learn, CI/CD, User segmentation):

- Developed Streamlit dashboard with churn prediction (99% accuracy) using Netflix subscriber data and feature engineering.