

# Harvey Phan

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## Education

**Stanford University**  
*B.S. in Computer Science*

Stanford, CA

## Experience

**POSH (YC W22)** Sep. 2026 - Present  
*Software Engineer - AI Infrastructure, Modeling, Time Series*

**Humanoid Athletic Robotics Project (HARP)** Oct. 2026 - Present  
*Software Engineer Lead - Stanford Student Robotics (SSR)*

**Stanford Autonomous Underwater Vehicle** Sep. 2026 - Present  
*Software Engineer*

**Hanoi University of Science and Technology (HUST)** Jun. 2024 - Aug. 2024  
*Machine Learning Researcher*

- Developed an EEG state-classification prototype and reproducible Python tools for model training, prediction, and evaluation.
- Refactored signal processing with a 0.5 to 40 Hz Butterworth filter, Welch bandpower features, and power ratios for SVM classification.
- 2026 public-data continuation: extracted 512 features per window from 109 participants for eyes-open/closed classification.
- Tuned an RBF SVM with grouped validation; reached 79.87% balanced accuracy on 22 held-out participants in this benchmark.

## Projects

**Pharmaceutical Document Processing - AI Engineer Apprenticeship, Pfizer** 2026

- Built a Python/Docker pipeline for OCR, retrieval, and classification of 50+ pharmaceutical vendor files during a June - September apprenticeship.
- Compared 4 OCR/LLM approaches and 6 chunking configurations; reviewed 100+ outputs to study errors and model trade-offs.
- Public continuation: built a review interface for 742 candidate date cells from 60 MHRA notices, with source evidence and exports.

**AI-Based Macroeconomic Forecasting** 2025

- Co-authored a published study of inflation, GDP, and unemployment forecasts for the U.S. and Vietnam using quarterly data from 2000 to 2024.
- Compared LSTM, GRU, TCN, Transformer, and hybrid VAR-LSTM models with econometric baselines using time-based splits and rolling-window validation.
- Evaluated hybrid VAR-LSTM forecasts with RMSE, MAE, and directional accuracy; used SHAP to examine the main drivers of model predictions.

## Skills

**Programming:** Python, C/C++, SQL

**ML / Data:** PyTorch, scikit-learn, pandas, NumPy, SciPy; time-series analysis

**Tools:** Git, Docker, ROS 2, MuJoCo

## Awards

Bronze Medal, Vietnam National Student Mathematics Olympiad

Honorable Mention, International Mathematical Modeling Challenge (2024 and 2025)