

# Phuykong Meng

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## EXPERIENCE

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### Amazon

August 2025 – Present

*Software Developer*

*New York City, NY*

- Led the expansion of a network automation to support cross-region AWS connectivity; onboarded **53** service teams via plugin in Go, achieving a **50%** reduction in manual intervention.
- Analyzed cross-region peak traffic data to optimize NAT Gateway scaling, reducing gateway traffic load to under **30%** of the warning threshold and improving network availability under production traffic for BFCM.
- Designed and implemented automation for discovering expansion of partner VPCs enabling seamless connectivity which reduce customer downtime by **80%**.

### Strados Labs

June 2024 – September 2024

*Software Developer Intern*

*Philadelphia, PA*

- Implemented exploratory data analysis to assess voice detection model performances on different environments using **Python**, identifying key factors influencing model accuracy improving evaluation score to **85%**.
- Incorporated a Transformer-based model (ViTDet) for cough detection using **PyTorch**, and evaluated the model's performance on an internal dataset, achieving an **80% accuracy rate**.

### Neural Engineering Data Consortium

August 2021 – May 2025

*Software Developer*

*Philadelphia, PA*

- Led a team of **3 students** in refactoring **two machine learning systems** focused on EEG seizure and digital pathology, conducting weekly standup and code reviews to validate published results
- Developed a Python script that uses multiprocessing to efficiently de-identify **1PB** of medical imaging data, enabling secure, compliant publication of large-scale datasets.
- Redesigned the main website using **Figma/HTML/CSS/Javascript** optimizing user flow and organization

### Strados Labs

June 2023 – August 2023

*Software Developer Intern*

*Philadelphia, PA*

- Developed and iterated on a web application using **HTML/SCSS/Javascript/D3.js** that visualizes UMAP data mapping of patient's cough recording to streamline the QA process, decreasing the QA time by **50%**
- Added endpoints to internal APIs that fetches and upload annotation files with token verification in **AWS S3**

## PROJECTS

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### Memer.ai - Adobe Express Web Extension | GitHub

October 2024

- Led a team of five to win the Adobe Track in a competitive hackathon with over 300 participants, securing funding from Adobe's Fund for Design to continue project development
- Implemented Stable Diffusion's text-to-image API, allowing seamless and dynamic image creation based on user input, enhancing creative possibilities for Adobe Express users

### Backtester - OwlHack Fall 2024 | GitHub

September 2024

- Developed a backtesting engine in **Python** that simulates trading strategies, providing a comprehensive analysis of the strategy's performance
- Provided a detailed written document for over **200+ users** to backtest their strategies during the hackathon

## EDUCATION

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### Temple University

Philadelphia, PA

*Bachelor of Science in Computer Science | GPA: 3.87*

*May 2025*

## TECHNICAL SKILLS AND ACHIEVEMENTS

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**Technical Skills:** Java, Python, C, SQL, JavaScript, TypeScript, HTML, CSS, AWS

**Achievements:** Akuna Options Trading 201, SIG Poker Tournament Qualifier, Temple CIS Dean's List