

# Phuykong Meng

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## EDUCATION

### Temple University

Philadelphia, PA

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

*May 2025*

- **Activities:** Association for Computing Machinery (ACM), Temple Trading Club, Badminton Club
- **Coursework:** Data Structures and Algorithms, Operating Systems, UX Design, Computational Methods in Finance, Cloud Computing, Software Design

## EXPERIENCE

### Temple University

August 2024 – December 2024

*Undergraduate Teaching Assistant*

*Philadelphia, PA*

- **Data Structures and Algorithms (Fall 2024)** - Assisted over **30 students**, improving their understanding of data structures and algorithms, leading to a **20%** increase in average lab scores.

### Strados Labs

June 2024 – September 2024

*Software Developer Intern*

*Philadelphia, PA*

- Spearheaded exploratory data analysis to assess voice detection model performance on a speech corpus, identifying key factors influencing model accuracy and improving detection rates by **15%**.
- 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 – Present

*Software Developer*

*Philadelphia, PA*

- Led a team of **3 students** in refactoring **2 machine learning systems** on EEG seizure detection and digital pathology with weekly standup and code reviews, validating publication results
- Developed a Python script that de-identifies **1PB** worth of medical images for dataset publications
- Redesigned the main website using **Figma/HTML/CSS** optimizing user flow and organization

### Strados Labs

June 2023 – August 2023

*Software Developer Intern*

*Philadelphia, PA*

- Developed and iterated on a web application(**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 API that fetches and upload annotation files with token verification in **S3 bucket**, increasing efficiency for the QA team

## PROJECTS

### Memer.ai | GitHub

Oct 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

## TECHNICAL SKILLS

**Languages:** Java, Python, C, SQL, JavaScript, TypeScript, HTML/CSS

**Frameworks:** React, Node.js, NextJS, Flask, Postman

**Developer Tools:** Git, Figma, Docker, AWS (S3, EC2, ECR), Jira, Unix, JUnit