

Phuykong Meng

267-449-9458 | mphuykong@gmail.com | mphuykong.dev | github.com/M-Phuykong

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 (TTT), Google Developer Student 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 – Present

Undergraduate Teaching Assistant

Philadelphia, PA

- **Data Structures and Algorithms (Fall 2024)** - Assisted over **30+** students with data structures and algorithms concepts on lab assignments and homeworks

Temple Trading Club

March 2024 – Present

Treasurer

Philadelphia, PA

- Organized and coordinate a finance trading track for the annual hackathon, with **500+** registrations
- Hosted weekly workshops on technical analysis, different trading strategies, along with guest speakers

Strados Labs

June 2024 – September 2024

Software Developer Intern

Philadelphia, PA

- Spearheaded **exploratory data analysis** to assess voice detection model performances on speech corpus for speech scrambling. Identified factors influencing model performance and gained valuable insights with model exploration.
- 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 Research Assistant

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

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

CodeFest 2024 Hackathon Winner | GitHub

April 2024

- Led a team of **3** and pitched to multiple judges to secure 3rd place in the beginner category and secure victory in the Comcast sponsored track, triumphing over **63** teams and **450+** competitors, earning a prize of **\$1500**
- Implemented a **React Native** application using **AWS** serverless architecture and **Twilio** integration, featuring live fire detection and push notification alerts for users.

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