Phuykong Meng

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EDUCATION

Temple University — Philadelphia, PA
Bachelor of Science in Computer Science | GPA: 3.91 — *May 2025*
- **Activities:** Association for Computing Machinery (ACM), Temple Trading Club, Badminton Club
- **Coursework:** Data Structures and Algorithms, Operating Systems, UX Design, Quantitative Methods in Finance, Cloud Computing, Software Design, Linear Algebra, Computational Probability and Statistics

TECHNICAL SKILLS AND ACHIEVEMENTS

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

EXPERIENCE

Neural Engineering Data Consortium — August 2021 – Present
Software Developer — *Philadelphia, PA*
- Led a team of **5+ students** in refactoring **2 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 de-identify **1PB** of medical imaging data, enabling secure, compliant publication of large-scale datasets.
- Created a desktop app (**PyQt6**) that displays real-time model predicted annotations on cancerous tissues
- Redesigned the main website using **Figma/HTML/CSS/Javascript** optimizing user flow and organization

Temple University — August 2024 – December 2024
Teaching Assistant - Data Structures and Algorithms — *Philadelphia, PA*
- Assisted over **30 students** through tutoring, leading to a **20%** increase in average quiz scores.

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**.

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

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 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
- Wrote technical documentation enabling **200+ users** to backtest their strategies