Phuykong Meng

267-449-9458 | mphuykong@gmail.com | mphuykong.dev

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
- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, UX Design, Computational Methods in Finance, Cloud Computing, Software Design

EXPERIENCE

Strados Labs   June 2024 – Present
Software Developer Intern | AWS, Python, Javascript   *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.
- Incorperated a Transformer-based model (ViTDet) for cough detection using **PyTorch**, and evaluated the model's performance on an internal dataset, achieving a **80% accuracy rate**.

Neural Engineering Data Consortium   August 2021 – May 2024
Software Developer | Python, HTML, CSS, Javascript, Shell   *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 **3+ Python data classes** for data uniformity, improving code reusability, and advocated for better coding practices and format for new developers
- Developed a Python script that de-identifies **1PB** worth of medical images for dataset publications
- Redesigned and recreated the main website using **Figma/HTML/CSS**, also optimizing user flow and organization

Strados Labs   June 2023 – August 2023
Software Developer Intern | Python, Javascript, AWS   *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 several endpoints to internal API that fetches and upload annotation files with token verification in **S3 bucket**, increasing efficiency for the QA team

PROJECTS

CodeFest 2024 Hackathon Winner | https://github.com/timo1k/renren   April 2024 – April 2024
- Led a team of four 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, with seamless communication to authorities through the app

Fit-tastic (Owl Hack Spring 2023 Winner) | https://devpost.com/software/fit-tastic   Sept. 2021 – Sept. 2021
- Led the development of a **React** web app for fitness planning with fluid and user-accessible UI during the hackathon, helping to lower the barrier of entry to healthy eating
- Integrated the **OpenAI GPT-3** Chatbot API into the application, enabling natural language interaction and personalized fitness recommendations for users

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, TypeScript, HTML/CSS
Frameworks: React, Node.js, NextJS
Developer Tools: Git, Figma, Docker, AWS (S3, EC2, ECR), Jira, Unix, JUnit