

Phuykong Meng

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mphuykong.dev

github.com/M-Phuykong

Education

Temple University – Bachelor of Science in Computer Science, 3.87

Expected May 2025

Work Experience

Student Researcher, Neural Engineering Data Consortium – Philadelphia, PA

August 2021 – Present

- 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 and designed 3 data classes using Python for data uniformity, improving code reusability, and advocated for better support for other developers
- Developed a Python script that de-identifies 1 petabyte worth of medical images for dataset publications
- Redesigned main website(Figma/HTML/CSS/Javascript), optimizing user flow and organization
- Enhanced the group IEEE conference website's sign-up process with PHP, resulting in a 50% increase in traffic

Software Developer Intern, Strados Labs– Philadelphia, PA

June 2023 – August 2023

- 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 the internal API calls that fetch and upload patient files with token verification, adding a layer of security

Projects

Fit-tastic (Owl Hack Spring 2023 Winner)

<https://devpost.com/software/fit-tastic>

- 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.

Spotify Dashboard

<https://github.com/M-Phuykong/synthboard-react>

- Developed a 90s-themed website with React, showcasing users' top tracks and artists within customizable date ranges, alongside interactive physics rendering and fluid animations
- Created a fully specified REST backend using Node.js and Express.js that handles the communication between the app and Spotify's API, allowing the app to scale by adding new endpoints to the backend server

Portfolio

<https://github.com/M-Phuykong/pk-portfolio>

- Designed and developed a React website using the Gatsby framework, Greensock, and Framer motion showcasing user-interactable components and vivid animations

Skills

Languages: Python, TypeScript, C++, Java, JavaScript, HTML, CSS, Bash, PHP

Frameworks and Libraries: ReactJS, D3.js, CUDA, Node.js, Express.js, Sklearn

Tools: Git, Figma, AWS (S3, EC2, ECR), Docker, CI/CD, Jira