

Mehtab Mahir

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EDUCATION

Bachelor's Degree in Computer Science

Queens College – Flushing, NY

Jan 2023 – Dec 2025

Clubs: Treasurer of Crypto Research QC

PROFESSIONAL EXPERIENCE

AI Trainer – Handshake, LinkedIn AI Training Program

Aug 2026 – Present

- Analyze short video clips and comprehensively identify and describe audible events for multimodal AI training, capturing fine-grained speech and non-speech audio details.
- Develop detailed, long-context prompts and compare AI responses across multiple rounds, selecting the strongest outputs and building on them in follow-up interactions to support model training.

Software Engineer - AI Trainer – Mercor

May 2026 – Present

- Support AI model improvement for a leading AI research lab by evaluating a diverse set of outputs against task-specific criteria and providing structured written feedback.
- Review and test AI-generated outputs, write corrected solutions, and document quality issues.

Payment Analyst – Amalgamated Employee Benefits Administrators

Mar 2026 – May 2026

- Managed benefit and pension payment workflows, including monthly payment schedules, interest calculations, direct deposits and deductions, tax withholding, and audit documentation.
- Investigated Salesforce inquiries and processing discrepancies, collaborating with analysts and examiners to ensure accurate EFTs, payment records, and pension certification forms.

Full Stack Developer Intern – Research Foundation of CUNY

Jul 2024 – Aug 2024

- Led a team developing a React-based multimodal chatbot using the Gemini API, supporting image and audio inputs.
- Integrated Google Cloud Text-to-Speech and Speech-to-Text APIs for real-time voice input and spoken responses, enhancing the company's platform.
- Added deepfake face-swapping functionality by running a Python tool through a Node.js child process.

PROJECTS

EasyWhisperUI – <https://www.github.com/mehtabmahir/easy-whisper-ui>

- Built a cross-platform desktop app in Electron and TypeScript for local Whisper transcription on Windows, macOS, and Linux with GPU acceleration.
- Reached 500+ GitHub stars as an open-source local transcription tool.
- Engineered an automated Windows setup that validates dependencies and builds Whisper with Vulkan acceleration for the user's specific GPU.
- Implemented several user-requested features, including queue-based batch processing and live transcription.

Workout Counter iOS – <https://github.com/mehtabmahir/Workout-Counter>

- Built a privacy-first iOS fitness app using SwiftUI, AVFoundation, and Apple Vision to count exercise repetitions through real-time on-device body-pose detection.
- Engineered a reusable multi-exercise workout system with joint-angle analysis, smoothing, confidence filtering, movement state machines, missing-frame tolerance, live skeletal overlays, rep goals, and audio/haptic feedback.

Auto 60 Hz – <https://github.com/mehtabmahir/auto-60hz-cpp>

- Built a Windows utility in C++ and Qt that automatically lowers the display refresh rate during full-screen use on battery (e.g., from 120 Hz to 60 Hz), extending battery life by up to 20% depending on the device and workload.
- Used WinAPI and PSAPI to monitor foreground windows, identify processes, and exclude Windows system processes, with configurable refresh rates and automatic startup.

SKILLS

Languages: Swift, C++, TypeScript/JavaScript, Python, Java, T-SQL, PowerShell

Frameworks & Libraries: React, Next.js, Electron, Qt, SwiftUI, AVFoundation, Apple Vision, PyTorch, whisper.cpp

Tools & Platforms: Git, Node.js, SQL Server, Firebase, Google Cloud, Docker, CMake, FFmpeg, Xcode, Visual Studio