GRAHAM ARMSTRONG

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Audio engineer focused on AI speech, multilingual speech data, model evaluation, DSP, and audio tooling

EDUCATION

University of Southern California — Los Angeles, CA
Music Production / Audio Engineering — Aug 2024 - May 2027
Dean's List — GPA 3.9

Berklee College of Music — Boston, MA
Music Production / Audio Engineering — Aug 2023 - May 2024
Worldwide Scholarship recipient — GPA 3.7

EXPERIENCE

ByteDance / TikTok — San Jose, CA
Project Engineer Intern, Data Speech Foundation Generation — May 2026 - Aug 2026

- Owned data quality for multilingual voice datasets spanning 100+ languages and dialects, from raw capture through validation, standardization, and training-ready delivery for speech foundation models and large-scale speech-processing systems
- Evaluated 1,000+ hours of speech audio for signal consistency, articulation accuracy, background noise floor, and technical compliance, raising the consistency and quality of downstream ASR and language-model training data
- Built and maintained transcription-alignment, metadata-verification, and dataset-standardization workflows, enforcing consistent formatting and labeling across multilingual deliveries from internal teams and external vendors
- Managed vendor partners and shared data assets across concurrent speech and audio projects supporting TikTok and CapCut teams

IcecreamSound Studios — Los Angeles, CA
Recording Engineer — Jan 2025 - Present

- One of the studio's lead recording engineers, running end-to-end sessions for Grammy-nominated and major-label artists across hip-hop, R&B, pop, and alternative; owned signal chain, gain structure, routing, and final file delivery
- Built and manage an independent client base through repeat bookings and artist referrals, establishing credibility as a first-call engineer
- Troubleshoot Pro Tools session faults and signal-flow issues in real time while managing client intake, scheduling, and session turnover

CyberSound Recording Studios — Boston, MA
Assistant Recording Engineer — Jan 2024 - Jul 2024

- Supported and independently ran professional sessions for Grammy-nominated and major-label-affiliated artists, managing signal flow, gain staging, headphone mixes, analog outboard, client scheduling, transactions, and studio readiness in a high-volume room

TECHNICAL PROJECTS

Audio Batch Processing & Validation Toolkit — Python, FFmpeg, DSP

- Built Python command-line tooling to batch-process large multi-session libraries: format conversion, filename and format validation, metadata read/write, and automated integrity checks, eliminating repeated manual passes before client delivery
- Automated repetitive studio workflows including session prep, naming conventions, and file delivery into reusable commands

Audio Plug-in & Signal Processing Projects — DSP, Python, Audio Analysis

- Built experimental audio plug-ins and DSP prototypes covering production effects, parameter automation, and audio analysis in Python

GoFit: Workout Tracking & Progressive Overload App — React Native, TypeScript, Expo

- Shipped a cross-platform mobile app with a progressive-overload recommendation engine deriving prescribed loads from workout history, rep counts, estimated strength, and set-speed feedback, plus exercise logging, PR tracking, and performance visualizations

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript
Speech AI & Evaluation: Multilingual dataset curation, speech-data QA, transcription alignment, metadata validation, labeling schema, ASR training-data quality, vendor and data-asset management
Audio & DSP: Batch audio processing, sample-rate & bit-depth validation, spectral and level analysis, noise-floor assessment, gain structure, signal-chain design, critical listening
Tools & Libraries: FFmpeg, NumPy, React Native, Expo, Git, Visual Studio Code
DAWs & Production: Pro Tools, Ableton Live, FL Studio, Adobe Audition, Premiere Pro, After Effects

LEADERSHIP AND AWARDS

Music Production — Los Angeles, CA

- Released original music generating millions of streams on major platforms; produced for charting and award-winning pop and R&B acts; won production competitions hosted by Cymatics, Kenny Beats, and Producergrind; DJ at high-end Los Angeles venues

Lambda Chi Alpha, University of Southern California — Los Angeles, CA
President — Nov 2024 - Present

- Lead a 170-member chapter and manage a $2M annual budget, overseeing executive operations, compliance, university relations, and risk and safety planning