

Kay Wijerathne

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EDUCATION

West Virginia University
B.S. Computer Science, Cybersecurity Focus

Expected 05/2027
Morgantown, WV

RESEARCH EXPERIENCE

Undergraduate Researcher - WVU SURE Program
ET-AudioBench | Advisor: Dr. Anthony Sicilia

May 2026 - Jul 2026
Morgantown, WV

- Designed a Python evaluation pipeline for spatial reasoning in audio-language models, translating an accessibility question into five reproducible task families.
- Built and evaluated a 100-clip pilot benchmark with deterministic manifests, structured JSON outputs, baselines, latency logging, and robustness conditions.
- Developed live-control scaffolding and evaluation metrics connecting multimodal AI performance to accessibility and competitive-game fairness for Deaf and hard-of-hearing players.

Undergraduate Researcher and Presenter - WVU Eberly College
Digital Networks, Representation, and DHH Accessibility

2025
Morgantown, WV

- Conducted qualitative research on hearing-impaired Sri Lankans, digital networks, representation, and accessibility; earned top undergraduate research recognition and a first-place showcase award.

SELECTED PROJECTS

BreatheEasy - Team Lead and Software Engineer
React, Node.js, REST APIs, automated testing

Jan 2025 - May 2025

- Led six developers building a location-aware asthma-risk application with real-time EPA AQI and geolocation APIs; implemented unit, integration, and API-reliability tests.

NowPlayingWallpaper
C#, .NET, Windows APIs, asynchronous programming

Aug 2025 - Nov 2025

- Built a media-aware Windows utility with sub-500-millisecond updates, 35 percent lower memory use, and stable behavior across more than 50 media changes.

Twocents - Volunteer Software Engineering Contributor
React, Next.js, production debugging

2025

- Resolved launch-critical bugs across core user flows for a production financial-technology product serving more than 5,000 users.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, C#, Rust, Dart, SQL, HTML/CSS

Research and AI: Experimental design, Benchmark development, Evaluation metrics, Audio AI, Multimodal AI evaluation, Human-Computer Interaction, Accessibility analysis, Technical writing

Frameworks and Tools: React, Next.js, Node.js, Git/GitHub, REST APIs, SQLite, Flutter, Android