

Taehoon (Ethan) Lee

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Education

Emory University

Computer Science (BS), Psychology (BA)

Aug 2023 - May 2026

Atlanta, GA

- GPA: 4.0 (Dean's List all semesters)
- Relevant coursework: Data Structures & Algorithms, Computer Architecture, Analysis of Algorithms, Machine Learning, Database Systems, Linear Algebra, Discrete Structures

Experience

Software Development Intern

UrsaTech

Jan 2025 – Present

Remote

- Spearheaded integration a 3D game and autonomous driving interface into an AI-powered educational platform, enabling interactive learning of programming concepts using **Next.js**, **TypeScript**, and **Three.js**
- Implemented user authentication using **AWS Amplify** to enhance platform security and accessibility

Machine Learning Research Intern

National Science Foundation

Jun 2024 – Present

Atlanta, GA

- Deployed a web application for Explainable Artificial Intelligence (XAI) benchmarking, facilitating robust evaluation and comparison of visual explanation methods utilizing **Gradio**, **Python**, **PyTorch**, **Torchvision**, and **OpenCV**
- Built a curated collection of datasets to benchmark 8 existing visual explanation methods and conduct a thorough comparison across 4 selected datasets using 6 alignment-based and causality-based metrics
- Co-organized an annual AAAI workshop on advancements in foundation models and LLMs for biological research

Research Assistant in Data Science

Emory University CAV Lab

Nov 2023 – Present

Atlanta, GA

- Conducted 60-person crowdsourced research on barriers to data engagement in music streaming, employing **Python**, **Pandas**, and **SciPy** for data analysis and statistical testing to uncover user behavior insights
- Developed interactive visualization of streaming history utilizing **HTML**, **JavaScript**, **Spotify API** and **D3.js**

Software Development Intern

eStreamly

Jun 2024 – Dec 2024

Atlanta, GA

- Enhanced online shopping experience by rebuilding 17 different user interfaces, utilizing **AngularJS** and **TypeScript**
- Developed and maintained application built with **C#** and **.NET** using **Azure DevOps** pipelines for CI/CD, automating testing, builds, and deployments to ensure smooth and reliable updates across multiple environments
- Collaborated with a team of 3 developers in a **SCRUM**-based environment, actively contributing to weekly sprints and prioritizing rigorous testing and communication with stakeholders to ensure high-quality deliverables

Projects

Spotify Warped: Personal Data Engagement in Music

Nov 2023 – Present

- Collaborated in faculty research under Dr. Emily Wall on barriers to data engagement in music streaming, the types of insights users desire, and how well existing data summaries (e.g. Spotify Wrapped) satisfy these needs
- Analyzed 7 factual and behavioral insights into data engagement behavior differences between casual users and Quantified Self (QS) users utilizing **Python** and **JavaScript**
- Co-authored and presented research papers in 3 global conferences: CSCW 2024, CHI 2025, and IMWUT 2025

Emory Hacks: Inaugural Hackathon at Emory

Sep 2024 – Jan 2025

- Co-founded Emory's hackathon group as the technology lead alongside a multidisciplinary team of ambitious students, attracting over 200 participants and sponsors including JPMorgan, Hyundai, and WolframAlpha
- Spearheaded hackathon website creation using **React.js** and **JavaScript**, showcasing dynamic animations built with **Motion for React (Framer Motion)** and **GSAP**

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, C/C++, C#, Go, SQL, NoSQL, Swift, HTML, CSS/SCSS, Tailwind CSS, Bash, R, Markdown, LaTeX, ARM Assembly

Frameworks: Next.js, React, SwiftUI, Angular, Gradio, Spring Boot, Flask, .NET

Developer Tools: VS Code, XCode, Firebase, MongoDB, Postman, Linux/Unix, Figma, Node.js, Git, HTTP, REST, AWS, Azure

Libraries: PyTorch, Torchvision, OpenCV, TensorFlow, Pandas, NumPy, SciPy, jQuery, D3.js