

Taehoon (Ethan) Lee

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Education

Emory University <i>Computer Science (BS), Psychology (BA)</i> <ul style="list-style-type: none">GPA: 4.0Awards: James T Laney Scholarship (Fall 2024, Spring 2025), Deans List (all semesters)Relevant coursework: Data Structures & Algorithms, Computer Architecture, Algorithm Analysis, Machine Learning, Database Systems, Linear Algebra, Discrete Structures	Aug 2023 - May 2026 Atlanta, GA
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Experience

Software Engineering Intern <i>UrsaTech</i> <ul style="list-style-type: none">Spearheaded the integration of 3D game environment and autonomous driving simulation into interactive educational web applications built with JavaScript/TypeScript, React.js, and Next.jsBuilt and maintained server-side logic and REST APIs using Node.js and Express.js, ensuring efficient data retrieval and integrationLeveraged AWS Amplify, Auth0, and AI SDK to implement user authentication and multimodal AI capabilities	Jan 2025 – Present Remote
Machine Learning Research Intern <i>National Science Foundation</i> <ul style="list-style-type: none">Developed a benchmark to evaluate 8 visual explanation methods for deep learning models, leveraging PyTorch, Torchvision, and OpenCV to assess interpretability, faithfulness, and stability across various computer vision architecturesDesigned and deployed a scalable visual explanation pipeline for data preprocessing, explanation generation, and method evaluation, utilizing Python and Gradio to enhance usability and streamline experimentationContributed to peer-reviewed research published on arXiv and co-organized an AAAI workshop on foundation models and LLMs in biological research, facilitating discussions on cutting-edge advancements and applications	Jun 2024 – Present Atlanta, GA
Data Science Research Assistant <i>Emory University CAV Lab</i> <ul style="list-style-type: none">Contributed to 60-person crowdsourced study under Dr. Emily Wall, identifying barriers to data engagement in music streaming and contrasting the behaviors of self-trackers and casual users through statistical analysis employing Python, Pandas, and SciPyDeveloped an interactive data visualization tool using HTML and JavaScript, enabling dynamic exploration of streaming historySubmitted co-authored research paper to 3 global conferences: CSCW 2024, CHI 2025, IMWUT 2025	Nov 2023 – Present Atlanta, GA
Software Engineering Intern <i>eStreamly</i> <ul style="list-style-type: none">Redesigned and implemented 17 online shopping interfaces, using TypeScript and AngularJS to enhance user experienceDeveloped and maintained a C# and .NET application, leveraging Azure DevOps pipelines for CI/CD automation, ensuring seamless testing, builds, and deployments across multiple environmentsCollaborated in a SCRUM-based Agile team of 3 developers, actively contributing to weekly sprints, prioritizing rigorous testing, and maintaining clear communication with stakeholders to deliver high-quality software solutions	Jun 2024 – Dec 2024 Atlanta, GA

Projects

Personal Portfolio Website <ul style="list-style-type: none">Developed a full stack portfolio website using Next.js and TypeScript to showcase projects, research, and professional experienceBuilt a REST API to access projects data stored and managed in a PostgreSQL database, ensuring seamless backend communication	Dec 2024 – Jan 2025
Emory Hacks: Inaugural Hackathon at Emory <ul style="list-style-type: none">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 WolframAlphaSpearheaded hackathon website creation using React.js and JavaScript, showcasing animations built with Framer Motion and GSAP	Sep 2024 – Jan 2025

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, C/C++, C#, Go, SQL, NoSQL, PostgreSQL, Swift, HTML, CSS/SCSS, Tailwind CSS, Bash, R, Markdown, LaTeX, ARM Assembly
Web Frameworks: Next.js, React, SwiftUI, AngularJS, Gradio, Spring Boot, Flask, .NET
Developer Tools: VS Code, XCode, Jupyter, Firebase, MongoDB, Postman, Linux/Unix, Figma, Node.js, Express.js, Git, HTTP, REST API, AWS, Microsoft Azure
Libraries: PyTorch, Torchvision, OpenCV, TensorFlow, Pandas, NumPy, SciPy, jQuery, D3.js