

1762 Clifton Rd NE MSC 221290
Atlanta, GA 30322

Andrew Lu
andrewtlu.github.io • linkedin.com/in/andrewtlu

andrew.lu@emory.edu
(404) 786-6427

EDUCATION

Emory University

Bachelor of Science in Computer Science, Minor in Applied Math

GPA: 4.0/4.0, **Dean's List:** Fall 2022, Spring 2023, Fall 2023

Relevant Coursework: Data Structs. and Alg., Comp. Arch., Algs., Lin. Alg., ML, Comp. Ling., Data Mining, Practicum

Awards/Distinctions: Phi Eta Sigma Honor Society, National Merit Scholar

Atlanta, GA

August 2022 – Present

EXPERIENCE

Emory Libraries, Computing Center at Cox Hall

Computing Center Technology Consultant

Atlanta, GA

August 2023 – Present

- Maintain friendly environment free of technical difficulties for students and faculty by managing CCCH's A/V system
- Provide a secure, up-to-date online experience for 200+ students by servicing CCCH's 32 computers and 4 printers

Kerygma Digital

Software Engineer

Remote

June 2023 – July 2023

- Reduced service response latency by 60% (~400 ms) by implementing a custom configurable time-to-live HTTP cache in order to create a more responsive experience for 5m+ BibleBot users across 60,000+ Discord servers
- Decreased HTML and JSON cache usage by 99% and 39% by creating custom middleware to strip stored responses
- Leveraged knowledge in Java, MVC, REST, and Git to learn and work in C# with the ASP.NET framework

PROJECTS

Personal Website

See andrewtlu.github.io for more projects and info!

- Researched, designed, and developed a personal portfolio website in order to showcase skills and learn front-end technology and design best-practices to support Project Emory and RIDEmory's front-end/design team
- Utilized: React + Vite, TypeScript, HTML/CSS, Figma, Git, Firefox/Chrome Developer Tools

RIDEmory

- Build a comprehensive rideshare solution for Emory's students through a self-updating database of ride information
- Guided engineers through MongoDB GeoJSON indexing to filter search for nearby rides and current traffic times
- Used Java and Spring Boot to teach MVC/REST and promote collaboration within the project's back-end team
- Utilized: Java/Spring Boot, MongoDB Atlas, Python/Flask, React, Figma, Git, Google Maps/Routes API

Voice Calculator

- Developed a hands-free calculator as proof-of-concept for a lightweight deployable voice-controlled application
- Created modular grammar regular expressions to improve speech detection accuracy in noisy environments
- Utilized: Java, Sphinx4, MaryTTS

LEADERSHIP AND COMMUNITY ENGAGEMENT

Project Emory

Cofounder/Secretary

Atlanta, GA

May 2023 – Present

- Craft engaging Spring Boot, MongoDB, and Git curriculum to enhance the technical proficiency of 20+ members
- Provide working CS experience to 30+ students by establishing and running Emory's only open project-building club
- Mentor 2 CS students by providing peer-programming opportunities, coursework guidance, and pre-professional help aimed to contribute to their overall success in software engineering

Emory Hack4Impact

Software Engineer

Atlanta, GA

December 2023 – Present

- Design and develop an internal operations webpage including an announcements board, HR service page, personal dashboard, and resources page to provide Odyssey Family Consulting Center with a unified employee experience
- Leverage knowledge in Figma to design pages based on client specifications and JavaScript to implement pages

ADDITIONAL SKILLS AND INTERESTS

Software: (*proficient*): Java, Git, JavaScript/TypeScript, HTML/CSS, Python (*familiar*): Shell, C, C#, Go

Interests: Backpacking, Volleyball, Technical/Modded Minecraft, Linux, Performance Arts (Oboe and Guitar)