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EDUCATION

Emory University

Atlanta, GA

Bachelor of Science in Computer Science, Minor in Applied Math

August 2022 – Present

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

Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Algorithms, Linear Algebra

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

EXPERIENCE

Emory Libraries, Cox Computing Center

Atlanta, GA

Computing Center Technology Consultant

August 2023 – Present

- Service Cox Computing Center's A/V system to maintain a collaborative environment free of technical difficulties
- Manage campus-wide printer and computer network for an up-to-date and secure online experience for students

Kerygma Digital

Remote

Software Engineer

June 2023 – July 2023

- Developed and improved BibleBot's easy quick reference features for 4m+ users across 51,000+ Discord servers
- Reduced service response latency by 60% (~400 ms) by implementing a custom configurable time-to-live HTTP cache
- Decreased in-memory HTML and JSON cache space by 99% and 39% by creating custom request proxies
- Leverage knowledge in Java, MVC, REST, and Git to learn and work in C# with the ASP.NET framework

LEADERSHIP AND COMMUNITY ENGAGEMENT

Project Emory

Atlanta, GA

Cofounder/Secretary

May 2023 – Present

- Spearhead development and chartering of the only inclusive project-building CS community on Emory's campus
- Teach Emory students React, Spring Boot, and other tech through a series of presentations paired with project tasks
- Lead weekly scrum meetings to pace the RIDEmory project, address knowledge gaps, and support project engineers

Emory Hack4Impact

Atlanta, GA

Software Engineer

December 2023 – Present

- Build an automated post-session survey service for Odyssey Family Consulting Center, connecting their CoreLogic database with their website to eliminate manual data entry and retrieval
- Leveraged knowledge in JavaScript and Git

PROJECTS

Personal Website

See andrewtlugithub.io for more!

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

RIDEmory (WIP)

- A full-stack self-updating database of ride information to augment/streamline Emory students' rideshare experience
- Used Java and Spring Boot to teach MVC/REST and promote collaboration within the project's back-end team
- Utilized: Java/Spring Boot, Apache Maven, 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

ADDITIONAL SKILLS AND INTERESTS

Software: (*proficient*): Java, C#, Git, JavaScript/TypeScript, HTML/CSS (*familiar*): C, ASM x86, Python, Go, MATLAB

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