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## EDUCATION

**Emory University** • *Bachelor of Science in Computer Science, Minor in Applied Math*

**Atlanta, GA**

- **GPA:** 4.0/4.0, **Dean's List:** Fall 2022, Spring 2023, Fall 2023, Spring 2024 August 2022 – Present
- **Coursework:** Data Structs. and Alg., Comp. Arch., Algorithms, Lin. Alg., ML, Comp. Ling., Data Mining, Practicum

## EXPERIENCE

**Georgia Tech Research Institute, Electronic Systems Laboratory Test Engineering Division**

**Atlanta, GA**

*Software Engineer Intern*

May 2024 – August 2024

- Built custom test visualizer for open architecture test engineers in 2 projects allowing for convenient anomaly detection
- Ported 180+ protocols into Pydantic models to automatically parse and validate variable-length structs in binary logs
- Wrote end-to-end tests providing full functionality checks and product compliance against sponsor requirements
- **Technologies:** Python, FastAPI, SQLAlchemy, Pytest, Playwright, Svelte, TypeScript, Tailwind CSS, CI/CD, Git

**Kerygma Digital**

**Remote**

*Software Engineer Intern*

June 2023 – July 2023

- Reduced service response latency by 60% (~400 ms) for 5m BibleBot users by implementing a TTL HTTP cache in C#
- Decreased HTML and JSON cache usage by 99% and 39% by creating custom middleware to strip stored responses
- **Technologies:** C#, ASP.NET, .NET Core, MongoDB Atlas, Discord API, CI/CD, Git, Unit Testing, Regression Testing

## PROJECTS

**Personal Website**

See [andrewtlu.github.io](https://andrewtlu.github.io) for more projects and info!

- Researched and designed a personal portfolio to gain frontend/design experience and inform Project Emory lessons
- **Technologies:** React + Vite, TypeScript, HTML, CSS, Figma, Firefox/Chrome Developer Tools

**RIDEemory (WIP)** • [github/project-emory/RIDEemory](https://github.com/project-emory/RIDEemory)

- Build comprehensive rideshare solution for Emory students through a self-updating database of ride information
- Used to teach Project Emory members MVC, ReST, databases, design, frontend frameworks, and version control
- **Technologies:** Java, Spring Boot, Spring Security, MongoDB, Firebase, React, Figma, GitHub Actions, Google Maps API

**Canyon** • [github/emory-canyoneers/canyon](https://github.com/emory-canyoneers/canyon)

- Implemented full-stack messaging app facilitating casual, in-person debates among new friends to build connections
- **Technologies:** Java, Spring Boot, MongoDB Atlas, Firebase, React Native, Docker, Bash, AWS EC2

**Resume Revamper** • [github/andrewtlu/resume-revamper](https://github.com/andrewtlu/resume-revamper)

- Created an LLM-powered resume editor to minimize low-level text decisions and focus on big-picture content goals
- **Technologies:** React, Python, Flask, LuaLaTeX, Anthropic API, Prompt Engineering, Natural Language Processing

**Efficient Speech Emotion Classification** • [github/ShaneBerhoff/cs334-project](https://github.com/ShaneBerhoff/cs334-project)

- Built Python toolkit to transform audio and achieve 78.6% accuracy over 6 emotions with ImageNet transfer learning
- **Technologies:** Python, PyTorch, Numpy, Convolutional Neural Networks, Transfer Learning, Deep Learning

## LEADERSHIP AND COMMUNITY ENGAGEMENT

**Emory Hack4Impact**

**Atlanta, GA**

*Director/Software Engineer*

December 2023 – Present

- Lead Emory volunteers in building software solutions for nonprofits and equip them with tools for advancing social good
- Design & develop an internal operations suite providing Odyssey Family Consulting with a unified employee experience
- **Technologies:** React, Next.js, Prisma, Supabase, Figma, DevOps

**Project Emory**

**Atlanta, GA**

*Cofounder/Director of Projects/Secretary*

May 2023 – Present

- Craft engaging curriculum to enhance technical proficiency and provide working experience to 30+ Emory students
- Mentor 2 CS students by providing peer-programming opportunities, coursework guidance, and pre-professional help

## ADDITIONAL SKILLS AND INTERESTS

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

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