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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 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)