

Miles Hall

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EDUCATION

Loyola University Maryland - Baltimore, MD Expected May 2027

Pursuing B.S. in Computer Science, minor in Finance and Data Science

Hyman Science Scholar | BGE Managed Scholar | GPA: 3.37

- Honors: Dean's List (Spring 2024, Fall 2025)

Relevant Coursework: Object-Oriented Data Structures, Object-Oriented Software Design, Discrete Math, Intro to Linux, Computer Systems, Computer Engineering, Discovering Info in Data, Statistical Computing, Tech Innovation and Entrepreneurship.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, HTML, C, Bash/Zsh, SAS, R, Assembly

Tools/Software: Next.js, React, StripeAPI, Material-UI, Firebase, Clerk, Tailwind CSS, Gemini LLM, Vite, MongoDB, FastAPI

WORK EXPERIENCE

Dell Technologies

Software Engineering Intern

Austin, TX

May 2026 – Present

- Developing an internal AI assistant for Dell's Client Solutions Group (CSG), leveraging **Ollama**, vector embeddings, **ChromaDB**, and **Memgraph** to improve contextual knowledge retrieval.
- Designing semantic retrieval pipelines that transform enterprise data into contextual embeddings, enabling large language models to generate more accurate, context-aware responses for internal users.

Erickson Senior Living

IT Training Team Intern

Catonsville, MD

Jun 2025 – May 2026

- Manage access provisioning for employees across multiple communities using **MyEmma**, while resolving service desk tickets related to MyEmma, corporate shared drives, SharePoint, and eLink through **RemedyForce**.
- Support IT training and onboarding initiatives by creating user-friendly documentation, assisting with Microsoft 365 and Workday training, and ensuring smooth adoption of internal systems.

Headstarter

Software Engineering Fellow

Virtual

Jun 2024 – Aug 2024

- Built 5+ AI apps and APIs using Next.js, Pinecone, and StripeAPI with **98%** accuracy as seen by **500** users.
- Spearheaded end-to-end project development, implementing MVC design patterns to deliver five successful applications

PROJECTS

HuzzHub (*JavaScript, Tailwind CSS, Next.js, Gemini API, Firebase Firestore*)

- Developed "Chill Guy", an AI-powered assistant designed to enhance conversations with humor, pick-up lines, and wit.
- Integrated meme-based humor and AI functionality using Next.js, Firebase, and Gemini LLM for real-time interactions.

LebronAI (*JavaScript, CSS, Next.js, Groq, Firebase Firestore*)

- Created a chat interface where users can have real-time conversations with an AI that mimics LeBron James.
- Used Next.js, Firebase, and Groq to handle messaging and data, with a clean interface built using Material UI.

Bucket (*JavaScript, React, Firebase Firestore, Clerk, Gemini API, Next.js*)

1st Place Overall & AI/ML Track Winner @ HackHounds 2025

- Engineered a full-stack web application leveraging the **Gemini API** for personalized, location-based recommendations and **Clerk** for secure user authentication and session management.
- Designed a Firestore structure to store user lists with timestamps to support organized data access and future analytics.

CMDFlow (*Python, FastAPI, React, MongoDB (Motor), Docker, Bash/Zsh*)

Submission for HackPrinceton 2025

- Built a full-stack command-tracking platform using FastAPI, MongoDB, and a custom bash/zsh capture script to log, store, and organize real-time shell activity.
- Implemented JWT authentication, async ingestion, OpenAI-powered summaries, and a React dashboard with instant search to make command histories searchable and reusable for fast-paced development.

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow (*Career Preparation Fellow*)

Jan 2025 – Present

- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies and assignments to grow leadership and technical skills
- Attend conferences hosted by industry leaders, such as Deloitte, LinkedIn, and Target

ColorStack @ LUM (*Vice President*)

October 2024 - Present

- Organized and facilitated 7+ workshops for **30+** tech majors, focusing on career development and academic growth, with **95%** positive feedback from attendees.
- Promoted **2** technical skill-building sessions in Data Structures and Technical Interview Preparation, resulting in a **50%** increase in student participation and a **50%** improvement in reported industry readiness.