

Garrett Vernon

[GitHub](#) | [LinkedIn](#) | [Portfolio](#) | GarrettVernonWork@gmail.com

M.S., Computer Science (OMSCS) — Georgia Institute of Technology — Currently Enrolled

U.S. Citizen | No Sponsorship Required | Eligible for U.S. Government Security Clearance

EDUCATION

Georgia Institute of Technology Currently Enrolled

Expected Graduation: December 2029

Master of Science, Computer Science (OMSCS, part-time) — AI Specialization

Franklin University, Columbus, OH

May 2026

Bachelor of Science, Computer Science

- Selected for Ohio's premier state-funded STEM merit award; re-qualified annually based on continuous academic excellence

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, SQL, C#, HTML, CSS

Frameworks: Spring Boot, Spring Security, Angular, Next.js, FastAPI, .NET MAUI, Node.js

Cloud & Databases: AWS (Elastic Beanstalk, RDS, S3, CloudFront), MySQL, PostgreSQL, Firebase Firestore, SQLite, Redis

Developer Tools: Git, GitHub, GitHub Actions, Docker, Maven, npm, Vercel

Core Concepts: Object-Oriented Programming (OOP), Data Structures & Algorithms, RESTful APIs, Authentication & Authorization (JWT/OAuth), CI/CD

EXPERIENCE

Heir Advisors Consulting, LLC

May – August 2025 / January – May 2026

Software Engineering Intern (Summer 2025 / Spring 2026)

- Automated document processing workflows supporting datasets exceeding 100,000 records, reducing repetitive manual tasks
- Supported data extraction and workflow automation for ownership research projects
- Collaborated with leadership to gather requirements and improve internal workflows
- Implemented stakeholder-requested website enhancements and maintenance
- Provided technical support for internal software systems

SELECTED SOFTWARE PROJECTS

HomeLink Service Hub

Actively maintained production-style full-stack marketplace platform connecting homeowners with service providers through secure service requests, job management, and payment workflows.

- Independently rebuilt and expanded a university capstone into a production-style full-stack application
- Architected a three-role platform (homeowner, provider, administrator) with role-based access control (RBAC)
- Developed JWT-secured REST APIs using Spring Boot and integrated an Angular frontend
- Deployed cloud infrastructure on AWS (Elastic Beanstalk, RDS, S3, CloudFront) with CI/CD automation using GitHub Actions
- Implemented secure service request, job management, and payment processing workflows

Provenance

Question-answering system over SEC EDGAR filings that retrieves and re-ranks passages, then generates answers where every claim cites the exact source text.

- Built hybrid retrieval combining pgvector semantic search and BM25 full-text search, merged with Reciprocal Rank Fusion
- Fine-tuned an in-house cross-encoder re-ranker and exported it to ONNX for deployment
- Bootstrapped training data using an LLM, removing the need for manual labeling
- Built an evaluation framework measuring answer faithfulness and citation accuracy

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Luex

Cross-platform financial tracking application for desktop and Android with real-time cloud synchronization.

- Designed application architecture and user workflows for structured financial tracking
- Built a cross-platform user interface using .NET MAUI and XAML
- Integrated Firebase Firestore for real-time cloud synchronization across multiple devices
- Implemented scalable data management for a consistent cross-platform user experience

Cheevo

Full-stack Xbox achievement tracker that integrates with Xbox Live to display game libraries, achievement progress, rarity, and Gamerscore.

- Integrated Xbox account authentication using OpenXBL OAuth with secure per-user token storage
- Developed background synchronization to keep game libraries and achievement progress up to date
- Implemented filtering, sorting, and rarity metrics for achievement tracking and user insights
- Designed a Redis caching layer to optimize external API requests and manage rate limits
- Built a full-stack application using Next.js, FastAPI, PostgreSQL, Redis, Docker, and TypeScript

WORK AUTHORIZATION

U.S. CITIZEN. Permanently authorized to work in the U.S. without restriction or sponsorship.

Eligible for U.S. Government Security Clearance