

MAXWELL FORTNER

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EDUCATION

Dartmouth College

Bachelor of Arts (BA), Computer Science

September 2023 - June 2027

GPA: 3.7

PROFESSIONAL EXPERIENCE

Tuck Advisors

Software Engineer

Hanover, NH

January 2026 - Present

- Develop internal full-stack tools to support M&A deal sourcing, diligence workflows, and data analysis
- Build backend services and automation to process structured and unstructured data used by advisors
- Design and maintain APIs and internal dashboards to improve data accessibility and decision-making
- Collaborate with senior stakeholders to translate complex business requirements into reliable software systems

Dartmouth College

Teaching Assistant

Hanover, NH

September 2025 - December 2025

- Supported students in C programming, UNIX tooling, debugging, and software testing practices
- Reviewed and graded medium-scale programming assignments with emphasis on correctness and code quality
- Provided guidance on debugging strategies and writing maintainable systems-level code

Fischer Homes

Database Administration Intern

Cincinnati, OH

June 2024 - August 2024

- Optimized SQL queries and indexing strategies, reducing report generation latency by 50% for 100+ users
- Diagnosed and resolved 50+ production database performance issues, improving reliability and uptime
- Built automated Power BI dashboards backed by SQL data models for executive reporting
- Improved database backup and maintenance workflows, reducing backup time by 10%

Kleo

Software Engineer

Cincinnati, OH

January 2022 - January 2023

- Developed a Ukrainian language learning course used by learners across 30+ countries and 40 U.S. states
- Built mobile-first interfaces in Swift and implemented progress tracking to support structured language acquisition
- Collaborated with native Ukrainian speakers to design curriculum and validate linguistic accuracy
- Contributed to free, large-scale educational access during a period of humanitarian need

PROJECTS & OUTSIDE EXPERIENCE

FusionTally — Darts Scoring Software

- Architected and shipped a full-stack web/mobile application to digitize darts scoring and league tournament operations.
- Implemented deterministic scoring algorithms handling bust logic, checkout validation, and multi-format gameplay.
- Built REST/JSON APIs and database schema for player accounts, match history, and season analytics.
- Created responsive, touch-friendly UI optimized for live match scoring in real-world venues.
- [Link to project](#)

Luminate — AI-Powered Course Generator

- Built a full-stack web application to transform PDF documents into interactive courses with quizzes and flashcards
- Engineered a LLM orchestration layer integrating OpenAI, Anthropic, and Google APIs with task-level cost optimization
- Developed real-time progress streaming with Server-Sent Events (SSE) to provide responsive UX
- Launched an intuitive user interface based on testing and feedback from 20+ students
- [Link to project](#)

SKILLS

Skills: LLM APIs, Vector Databases, API Design, Database Optimization, Automation, Collaboration, Debugging, Teaching, Curriculum Design, Python, TypeScript, React.js, Next.js, FastAPI, SQL, REST APIs, Git, Docker, C/C++, Machine Learning, Data Analysis, Web Development, Java, Node.js, SEO