

MAXWELL FORTNER

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EDUCATION

Dartmouth College

Bachelor of Arts (BA), Computer Science & Classical Languages

September 2023 - June 2027

PROFESSIONAL EXPERIENCE

Tuck Advisors

Software Engineer

January 2026 - Present

Hanover, NH

- Built AI-powered analyst tools in an internal Chrome extension using AWS Lambda and external API integrations, automating pre and post-call summaries and surfacing deal insights to help senior analysts make faster, more informed decisions
- Engineered internal full-stack dashboards and data pipelines to support M&A sourcing and analysis across education and healthcare sectors, contributing to a 100% deal close rate (8/8) in the past year
- Partnered directly with the CEO to translate complex business requirements into technical architecture, owning end-to-end design and implementation of core internal systems

Kleo

Software Engineer

March 2025 - Present

Remote

- Developed voice-responsive branching video paths in Swift, enabling adaptive language lessons that respond to user speech input in real time
- Built and launched a Ukrainian language learning course with 500+ subscribers across 30+ countries and 40 U.S. states
- Created a weighted scoring vocabulary recommendation algorithm in Swift, ranking words dynamically by error rate, recency, and attempt frequency to surface personalized suggestions for each learner

Dartmouth College

Teaching Assistant

September 2025 - December 2025

Hanover, NH

- Held 4 hours of weekly office hours supporting ~25 students per session in C programming, UNIX tooling, debugging, and software testing
- Responsible for grading student lab assignments, evaluating correctness, code quality, and maintainability at scale
- Guided students through systems level debugging strategies including memory management, segfault analysis, and GDB usage, reinforcing best practices in low-level programming and test-driven development

PROJECTS

Luminate — AI-Powered Course Generator

- Built a full-stack PDF-to-course pipeline using PyMuPDF and Azure Document Intelligence for OCR, chunking documents and passing structured content through a multi-LLM generation layer (GPT-4, Claude, Gemini) to produce quizzes, flashcards, and course sections
- Engineered an LLM orchestration layer routing tasks across OpenAI, Anthropic, and Google APIs by model strengths, using Gemini 2.5 Pro for document structure, Claude for content generation, and GPT-4 Mini for quiz JSON output, with task-level cost optimization
- Developed real time course generation streaming with Server-Sent Events (SSE) and a Next.js 15 frontend backed by Supabase auth and ChromaDB vector storage; validated through beta testing with real users
- [Link to project](#)

FusionTally — Darts Scoring Software

- Automated configurable handicap rules applied dynamically at request time, eliminating an average of 3 hours of manual work per tournament
- Designed a MongoDB schema modeling complex relationships across players, matches, leagues, and tournaments, exposing normalized stats and season analytics through a REST/JSON API
- Built a React Native UI with real time score updates, optimized for touch input during live match scoring in real-world venues
- [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