

NATHANIEL DAVIS

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EXPERIENCE

Information Technology Intern

Jun 2024 – Jul 2024

U.S. Embassy

Addis Ababa, Ethiopia

- Managed infrastructure including imaging 40+ computers and maintaining 200+ systems with networking and remote machine maintenance
- Developed QR inventory management system for CLO office using React, Firestore, and image storage with tagging functionality for box-to-item tracking

Freelance Web Developer

Sep 2023 – Present

Briggs Davis

Remote

- Delivered web solutions for clients including nonprofits using React and WordPress with focus on donation systems and membership management
- Integrated Ethiopian payment APIs and built Supabase backends with row-level security for e-commerce platforms including jewelry inventory systems
- Developed complex business applications including a construction calculator with real-time cost and efficiency optimization features

PROJECTS

Oderum

- Implemented machine learning recommendation system using AI embeddings with cosine similarity search across 300+ fragrances and notes
- Engineered training pipeline through web scraping to generate 1000+ similarity pairs for model fine-tuning
- Built full-stack application with Next.js and PostgreSQL supporting user reviews and fragrance lists

Jazzio

- Developed bilingual membership platform for U.S. Embassy Addis Ababa supporting 20,000+ members with English/Amharic registration forms and Ethiopian calendar integration
- Reduced staffing requirements by 30% and processing time by 25% through QR-based verification system with real-time analytics tracking gender and retention metrics
- Implemented custom form validation using regex, Zod, and Firebase backend to handle Amharic text input and dual-language database architecture

Shrine

- Built high-performance chess engine in Rust using bitboard representation with minimax algorithm achieving 12-move search depth
- Optimized performance through transposition tables, alpha-beta pruning, and killer move heuristics

SKILLS

Languages: JavaScript, TypeScript, Python, Rust, Java, HTML, CSS, SQL, WebAssembly

Frameworks: React, Svelte, Next.js, Remix, PyTorch, FastAPI

Databases: PostgreSQL, SQLite, MongoDB, Redis, Pinecone

Cloud: AWS, GCP, Azure, Vercel, Netlify, Firebase, Supabase, Cloudflare

Tools: Stripe, Git, Playwright, Linux, Jest, Unity, Unreal

EDUCATION

University of Pittsburgh

Pittsburgh, PA

Bachelor of Science, Computer Science

Aug 2025 – May 2029