Matthew Graba

Champlin, MN • (612)-442-7737 • matt.graba14@gmail.com • mattgraba.com

SUMMARY

Backend-focused software engineer building production-oriented systems with real data, real constraints, and end-to-end ownership. Experienced in designing domain-driven APIs, ingestion pipelines, and scalable schemas using TypeScript, Node.js, PostgreSQL, and Docker. Currently leading development of a fantasy sports platform involving data ingestion, orchestration, and scoring logic. Known for operating independently, thinking in systems, and shipping under ambiguity.

EDUCATION

UNIVERSITY OF MINNESOTA - TWIN CITIES   Minneapolis, MN
Bachelor's Degree in Computer Science   December 2024

Relevant Coursework:
- Software Engineering, Program Design & Development, Artificial Intelligence
- Advanced Programming Concepts, Algorithms & Data Structures
- Machine Architecture, Computer Architecture, Introduction to Operating Systems

TECHNICAL SKILLS

Languages: TypeScript/JavaScript (ES6+), Python, SQL, Java, C++, C, C#, OCaml, Assembly
Backend: Node.js, Express, PostgreSQL, Prisma, MongoDB, REST APIs, ETL pipelines
Frontend: React, Next.js, Tailwind, component-based UI
Dev & Infra: Docker, Linux, Git, Postman, CI/CD fundamentals
AI & LLMs: OpenAI API, prompt engineering, LLM-driven analysis tooling
Core Competencies: Domain-driven design, modular architectures, relational data modeling, systems thinking, SDLC, design patterns

ENGINEERING EXPERIENCE & PROJECTS

PEAK Fantasy — Backend / Systems Engineer
Champlin, MN • November 2025 – Present
Production-oriented fantasy basketball platform focused on data ingestion, scoring, and league orchestration.

- Architected and implemented a domain-driven backend supporting leagues, teams, players, drafts, matchups, and scoring with explicit service boundaries and orchestration layers.
- Designed and normalized a PostgreSQL schema enforcing strong invariants, referential integrity, and canonical vs provider ID mappings to support long-term data correctness.
- Built ETL ingestion pipelines to transform external NBA data into validated, typed entities using idempotent writes, transactional safety, and batch processing patterns.
- Implemented scoring engines and computation pipelines to support configurable fantasy league rules and future real-time extensions.
- Developed containerized services and background job runners to support repeatable ingestion and scheduled workflows.
- Operates as the sole engineer responsible for system architecture, implementation, debugging, and technical direction.

Dev Helper — Full-Stack Engineer
Node.js, Express, React, MongoDB, OpenAI API
AI-powered developer debugging tool usable via both CLI and web interface, supporting user-provided API keys.

- Built a full-stack developer productivity system that analyzes runtime errors and returns structured explanations and fixes using LLMs.
- Designed a modular Express backend with clean routing, middleware boundaries, and async-safe request handling shared by both CLI and web clients.

- Implemented BYOK (Bring Your Own Key) support, allowing users to securely provide and manage their own OpenAI API keys for cost control and isolation.
- Integrated OpenAI APIs into deterministic analysis pipelines with attention to prompt structure, latency, and reliability.
- Implemented persistent history storage with MongoDB, indexed queries, and retrieval endpoints for past analyses.
- Built a responsive React UI and a CLI client consuming the same API surface, ensuring consistent behavior across interfaces.

Compliance SaaS Platform — Backend / Full-Stack Engineer (In Progress)
Node.js, Express, React, MongoDB

- Implementing secure authentication and role-based access control (admin, auditor, staff).
- Designing REST APIs and MongoDB schemas for auditable inventory and compliance data.
- Building a React dashboard for real-time discrepancy alerts and compliance report generation.

Drone Package Delivery Simulation — Systems Project
C++, Docker, UML, Design Patterns

- Simulated a modular drone delivery system using Observer and Decorator design patterns
- Implemented battery management, theft prevention, and Docker-based deployment
- Collaborated via GitHub, designed UML diagrams, and wrote unit tests to ensure system reliability

ADDITIONAL WORK EXPERIENCE

ALL STAR TRANSPORTATION   Maple Grove, MN
Delivery Driver   2023 - 2024
- Managed **independent route planning**, adapting to day-to-day changes while consistently meeting delivery deadlines.
- Maintained a **100% safety-first record**, demonstrating reliability and calm decision-making under pressure.
- Coordinated with dispatch and customers to solve routing issues, showcasing **situational problem-solving and communication skills**.
- Demonstrated **high accountability**, managing daily workflows with no direct supervision.

HY-VEE GROCERY STORE   Brooklyn Park, MN
Meat Department Manager   2021 - 2022
- Led and coached a **4–6 person team**, coordinating daily tasks, schedules, and service workflows.
- Improved department efficiency through **process optimization**, inventory organization, and workflow restructuring.
- Trained new team members, demonstrating **mentorship, communication, and leadership qualities**.
- Maintained product quality and compliance standards, reinforcing **attention to detail** and **high operational ownership**.

THE CLADDAGH IRISH PUB   Maple Grove, MN
Line Cook   2018 - 2019
- Operated in a **high-pressure, fast-paced environment** while delivering consistent quality and timing.
- Collaborated closely with kitchen staff to coordinate timing, plating, and order accuracy — demonstrating **teamwork under stress**.
- Maintained a clean, organized work area, showing **discipline** and **strong personal work ethic**.
- Adapted to fluctuating workloads during peak hours, reinforcing **focus, efficiency, and situational awareness**.