Trevor Johnson

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Backend Software Engineer (Python)

Backend-focused engineer with experience designing service-oriented APIs using Python, FastAPI, and PostgreSQL. Strong emphasis on data modeling, migration-driven development, and maintaining clear separation between HTTP layers and business logic. Background operating in high-pressure, correctness-critical environments.

Technical Skills

Languages: Python, SQL
Backend: FastAPI, SQLAlchemy, Alembic, Pydantic
Databases: PostgreSQL
Architecture: Service-oriented design, REST APIs, migration-driven development
Tools: Git, Swagger / OpenAPI
Prior Frontend (secondary): Next.js, Tailwind CSS
Other: Analytical problem solving, incident response, systems thinking

Projects

TaskForge — Backend API for Project & Task Management

Python, FastAPI, PostgreSQL, SQLAlchemy, Alembic

- Designed and implemented a service-oriented backend API with thin HTTP routes and a dedicated business-logic layer
- Modeled relational data in PostgreSQL with enum-backed domain state (todo, in_progress, done) enforced at the database level
- Implemented migration-driven schema evolution using Alembic, including safe enum transitions
- Built RESTful endpoints using proper HTTP semantics (POST, GET, PATCH) with OpenAPI documentation
- Validated API contracts using Pydantic schemas and ensured clean JSON responses without ORM leakage

Pingr — Lightweight Service Health Monitor (Python)

Python, FastAPI, PostgreSQL, SQLAlchemy, Alembic

- Built a background monitoring script to track service availability and detect state changes
- Implemented conditional alerting to prevent notification spam during repeated failures
- Integrated external notification delivery via Discord webhooks and structured logging

Experience

911 Dispatcher, Lawrence County Sheriff's Department = Bedford, IN   Jan 2025 - Current
- Coordinate multi-agency responses to time-sensitive incidents using structured protocols
- Prioritize high-volume inbound events with strict correctness and documentation requirements
- Operate systems where accuracy, traceability, and reliability are critical
- Document all incidents meticulously, ensuring compliance with legal and organizational standards

Front-End Developer, 3MetaD – Remote   Feb 2024 - Jan 2025
- Delivered production web applications in collaboration with engineering and product teams
- Used analytics to guide system changes and measure user behavior
- Improved site engagement and retention through data-driven iteration

Surveillance Supervisor, French Lick Casino – French Lick, IN   June 2017 – Jan 2024
- Led investigations into financial irregularities and system misuse
- Designed and enforced operational procedures across departments
- Managed teams in compliance-driven, 24/7 operational environments

Education

Vincennes University   Aug 2013 - Aug 2017
Bachelor of Science in Homeland Security