

LEONARD JOHNSON

Senior Software & Systems Automation Engineer

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PROFESSIONAL SUMMARY

Senior Software Engineer with 6+ years of specialized experience architecting high-throughput asynchronous backends, resilient automation systems, and high-performance analytical pipelines. Proven track record of building production-grade bot ecosystems, persistent browser automation engines, and containerized zero-downtime Linux deployment workflows. Dedicated to writing clean, maintainable code with strict type-safety and observable architectures.

TECHNICAL EXPERTISE

- **Languages & Runtimes:** Python 3.13 (Asyncio, CPython Internals), SQL, Bash/Shell, Go, TypeScript/JavaScript
- **Frameworks & Automation:** FastAPI, aiogram 3.x, discord.py, Playwright, Puppeteer, SQLAlchemy, Pydantic v2
- **Data & Databases:** PostgreSQL, DuckDB, SQLite (WAL mode), Redis, In-Memory Caching, Schema Migrations
- **Infrastructure & DevOps:** Linux (Debian, Ubuntu), Docker, Docker Compose, Nginx Reverse Proxy, Systemd, GitHub Actions CI/CD
- **Core Competencies:** High-Throughput Message Dispatch, Web Scraping & Stealth Automation, Database Optimization, Microservices, API Security

WORK EXPERIENCE

Lead Systems & Automation Engineer

2022 – Present

Distributed Systems & Infrastructure Engineering

- Architected an asynchronous messaging engine coordinating 20+ worker nodes, handling 450+ msg/sec peak throughput with sub-40ms latency and 99.98% reliability.
- Engineered a resilient headless browser scraping engine using Playwright and CDP, monitoring 50,000+ endpoints daily while reducing anti-bot blocking by 94% through session persistence and header randomization.
- Constructed in-process analytical data pipelines using DuckDB and Polars, accelerating analytical batch query processing 10x over relational databases.
- Containerized production microservices with optimized multi-stage Dockerfiles and established automated GitHub Actions CI/CD deployment to Linux servers behind Nginx.

Senior Backend Engineer

2019 – 2022

High-Scale APIs & Automation Platforms

- Built robust REST API services and asynchronous background workers using FastAPI, Pydantic, and PostgreSQL serving over 1M monthly requests.
- Implemented automated database backup, migration (Alembic), and point-in-time recovery workflows across distributed SQLite and PostgreSQL databases.
- Spearheaded automated testing strategies with pytest achieving 92% test coverage across core messaging and financial transaction services.

FEATURED ENGINEERING PROJECTS

- **OmniBot Distributed Platform:** Production-ready Telegram & Discord bot engine featuring state-machine persistence, admin rate-limiting, and SQLite WAL transactional logging.
- **Sentinel Web Scraper:** Headless browser automation system with visual DOM diffing, persistent session caching, and webhook alerting.
- **DuckDB High-Velocity Analytics:** Local query engine enabling sub-second analytical SQL aggregation over multi-gigabyte CSV and Parquet files without database overhead.

EDUCATION & CERTIFICATIONS

B.Sc. in Computer Science & Software Engineering

- Advanced Linux System Administration & Container Orchestration
- Asynchronous Concurrency and Distributed Systems Architecture