

NIJAE RAY KING

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<https://github.com/Nijaek>

SUMMARY

Software engineer with 3+ years building enterprise automation solutions that drive measurable impact—\$1.2M+ in cost savings and 90k+ application launches. Expert in translating business requirements into scalable solutions using Power Platform, Python, SQL, and AI-assisted tooling. Proven ability to partner with stakeholders from discovery through delivery, combining technical depth with clear communication.

SKILLS

- **Languages:** Python, TypeScript, JavaScript, SQL, C#, Java, C++
- **Frontend:** React, Next.js, Vite, Tailwind CSS, HTML5 Canvas, responsive design
- **Backend:** REST APIs, data pipelines, Prisma ORM, PostgreSQL, Redis, SQLite
- **AI/ML:** Generative AI integration, Copilot Studio, scikit-learn, prompt engineering
- **Tools & Infra:** Git, Docker (familiar), CI/CD concepts, Power Platform, SharePoint
- **Methods:** Agile (Scrum/Kanban), test-driven development, system design, stakeholder collaboration

WORK EXPERIENCE

AbbVie	North Chicago, IL
Specialist, Business Solutions	Aug 2024 – Present
Intern, Data Management	May 2023 – Aug 2023
Intern, Business Solutions → Contractor, Business Solutions	May 2021 – May 2023

- Built AI Capabilities App integrating Copilot-powered automation (email parsing, request triage, workload forecasting, knowledge querying); presented to department VP to drive AI adoption strategy.
- Designed enterprise request management system handling 600+ annual requests across 11 form types using Power Apps + Power Automate + SharePoint; optimized performance with parallel data loading and column pruning.
- Automated 40-hour manual workflow using Power Automate + Excel scripts; reduced MedDRA update processing to 15 minutes (160x improvement) with consistent data quality.
- Developed Power BI dashboards for global teams tracking SLAs, cost savings, and operational metrics; enabled data-driven decision-making across multiple business units.
- Led requirements gathering and stakeholder alignment for multi-team solutions; translated business needs into technical specifications and delivered end-to-end.
- Created Linkster, an app adopted department-wide with 80,000+ launches, becoming the primary resource hub for onboarding and cross-team collaboration.
- Mentored 5 interns, facilitating onboarding and serving as technical liaison to program leadership.

PROJECTS

VPSGuard — Python Security Analyzer with ML github.com/Nijaek/vps-guard
Tech: Python, scikit-learn, NumPy, SQLite, Typer, Rich

- Built Python CLI tool combining rule-based detection with IsolationForest ML model to identify distributed attacks (botnets, credential stuffing) that traditional tools miss.
- Engineered modular pipeline: 5 log parsers, 10-feature ML extraction, 7 detection rules, and 4 output formats (JSON, Markdown, HTML, terminal).
- Wrote 355 tests covering parsers, rules, ML, and reporting; designed for extensibility via protocol-based abstractions.

Algorithm Visualizer — Interactive Learning Platform

algorithm-visualizer.nijae.dev

Tech: React, TypeScript, Vite, Tailwind CSS, HTML5 Canvas

- Developed React + TypeScript platform visualizing 20+ algorithms (sorting, pathfinding, graph, ML) with step-by-step animations and real-time complexity analysis.
- Built responsive UI with custom hooks for state management, category-based routing, and smooth Canvas animations.

Flappy Bird Plus — Full-Stack Game with Auth & Leaderboard

flappy-bird.nijae.dev

Tech: Next.js, React, TypeScript, PostgreSQL, Redis, Prisma, NextAuth

- Created full-stack game with Next.js featuring Google OAuth, global leaderboard, cosmetic shop, and points economy.
- Implemented secure score submission with anti-cheat tokens, Redis caching for performance, and PostgreSQL persistence via Prisma ORM.

EDUCATION

University of Wisconsin–Madison — *B.S. Computer Science*

08/2020 – 05/2024

- Dean's List