

Alec Patterson

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EXPERIENCE

Junior Software Developer

Apr 2025 – Present

Johnson & Johnson Inc.

St. Petersburg, FL (Remote)

- Develop and maintain **T-SQL stored procedures** and database functions supporting Motion's Flood and High Value Homes rating platform.
- Enhance system reliability with **debug logging, new database tables, and versioned schema changes** to meet compliance and audit needs.
- Maintenance on **Telerik reports** and PDF delivery via **Azure Blob Storage**.

Data Migration Specialist

Jan 2020 – Present

Enumerate (formerly TOPS Software)

Clearwater, FL (Remote)

- Developed & deployed a **Python automation tool** that cut manual data validation time by 50%.
- Reduced file transfer size by up to 90% through a **custom JavaScript filter**, accelerating enterprise data migration.
- Accelerated data-migration workflows by standardizing procedures and removing non-essential steps, reducing time-to-value from 90 days to 60 days.

Project Manager: Customer Onboarding

Nov 2017 – Dec 2019

TOPS Software

Clearwater, FL (On-Site)

- Coordinated 3–10 customer onboarding projects/month, migrating from a desktop application to SaaS platform.

Customer Support Specialist

Oct 2013 – Oct 2017

TOPS Software

Clearwater, FL (On-Site)

- Conducted advanced troubleshooting for software issues and partnered with engineering to document and fix bugs.

EDUCATION

University of Florida, College of Liberal Arts and Sciences

Gainesville, FL

Bachelor of Science in Computer Science **GPA: 3.95**

Dec 2024

SKILLS

Languages/Frameworks: SQL, Python, JavaScript (React/Node), HTML/CSS, GraphQL, Java, C++, C#

Databases: Microsoft SQL Server, PostgreSQL, MongoDB, Oracle SQL, Supabase

Cloud & DevOps: Linux, AWS (EC2), Oracle OCI, MongoDB Atlas, Vercel, Docker

Developer Tools: Git, Jira, Visual Studio, VS Code, MSSMS, IntelliJ, Postman, Claude Code, Co-pilot with GPT-5

PROJECTS

Tech Wizard - Career Portfolio Website | *React, Next.js, Tailwind CSS, Three.js, Framer Motion*

Feb 2025

- Interactive portfolio website at AlecBytes.com, with intuitive UI and engaging animations.
- Integrated a **GPT-powered chatbot** using RAG techniques to respond accurately to questions about Alec.
- Leveraged **generative AI** to create and texture personalized 3D assets from photos, enriching the site's visual appeal and interactivity.
- AlecBytes.com | github.com/AlecBytes/portfolio

InterviewGPT: Ask Alec Questions | *Next.js, Python, OpenAI API, PostgreSQL, DrizzleORM*

Mar 2025

- Wrote **Python** scripts to convert personal information from YAML files into vector embeddings using the **OpenAI API**, enabling accurate retrieval-augmented responses.
- Customized chatbot interactions by **fine-tuning prompts** and continuously updating embeddings, improving the chatbot's performance and responsiveness.
- Enhanced user experience with smooth real-time streaming interactions utilizing Vercel AI SDK and Framer Motion animations.
- AlecBytes.com/chatbot | github.com/AlecBytes/rag-chatbot-alec