

Alec Patterson

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EDUCATION

University of Florida, College of Liberal Arts and Sciences Gainesville, FL
Bachelor of Science in Computer Science **GPA: 3.95** Dec 2024
Relevant Courses: Software Engineering, Data Structures and Algorithms, Operating Systems, Computer Organization, Algorithm Abstraction and Design, Advanced Programming Fundamentals, Information and Database Management Systems, Enterprise Software Engineering Practices, Information Security, Data Science

SKILLS

Languages/Frameworks: Java (OOP), Python, JavaScript (React/Node), GraphQL, SQL (Oracle/PostgreSQL), C++, R, HTML/CSS, TypeScript
Cloud & DevOps: Linux, AWS (EC2), Oracle OCI, Supabase, MongoDB Atlas, Vercel, Docker
Developer Tools: Git, Jira, Visual Studio, VS Code, IntelliJ, Jupyter Notebook, Postman, Vite, Quasar

EXPERIENCE

Data Migration Specialist: Implementation Services 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.
- Collaborated with engineers to refine the “New Community Setup Wizard,” leveraging data migration expertise to define column mappings, prevent common pitfalls, and ensure an intuitive user experience
- 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 clients from a legacy desktop application to a new SaaS platform.
- Streamlined communication between product, engineering, and client stakeholders for timely, high-quality launches.

SELECT PROJECTS

Portfolio Website | *Next.js, Tailwind CSS, Three.js, Framer Motion* Feb 2025

- Designed and built a responsive, interactive portfolio website at **alecbytes.com**, highlighting projects and technical skills with intuitive UI and engaging animations.
- Integrated an interactive **GPT-powered chatbot** using RAG techniques, allowing visitors to dynamically inquire about professional details, significantly enhancing user engagement.
- 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

RAG Chatbot | *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/chatbot | github.com/AlecBytes/rag-chatbot-alec