

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 January 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 November 2017 – December 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

Social App for Cyclists | *React, JavaScript, Node.js, MongoDB, AWS* September 2024 – December 2024

- Led security enhancements and new features (friend system, ride sharing, password reset flow).
- Collaborated with a 3-person dev team to move the prototype toward production readiness, leveraging **AWS** for deployment.
- chainlink.connexx-ai.com | github.com/LearnDialogue/connexx-chainlink

Data Trends & Visualizations Website | *SQL, Vue.js, Node.js, Oracle Cloud* August 2023 – December 2023

- Authored optimized **SQL queries** to uncover key data trends in baseball statistics.
- Developed a secure Node.js API and front-end visuals in Vue.js, achieving **seamless cloud-hosted** data access.
- baseballdataatrends.com | github.com/AlecBytes/dbProject

AI Prediction of Song Genre and Popularity | *Python, Jupyter, PyTorch, scikit-learn* May 2023 – July 2023

- Analyzed a Spotify dataset, exploring and visualizing correlations between audio features and song popularity.
- Preprocessed data using **Python** and **pandas** with dimensionality reduction techniques for optimized model inputs.
- Developed and evaluated **Random Forest** and **Neural Network** models for genre and popularity prediction, benchmarking against baseline decision trees and statistical measures.