

# James Seymour

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Enthusiastic and skilled software developer with over 2 years of experience in engineering data-intensive applications supported by a strong foundation in Computer Science fundamentals, Python, and SQL. Actively broadening expertise in software engineering and data science on a daily basis. Proven track record of designing and delivering software solutions from high-level business problems.

## Education/Certifications

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### **Bachelor of Science in Computer Science**, Troy University, Troy, AL, 2021

*Notable Coursework: Software Engineering, Object-Oriented Programming, A.I. Fundamentals, Data Structures, Analysis of Algorithms*

### **Data Science Professional**, IBM, 2022

*Notable Coursework: Python for Data Science, Databases and SQL with Python, Data Analysis with Python, Data Visualization with Python*

### **Back End Development and APIs**, freeCodeCamp, 2023

*Notable Coursework: Basic Node.js and Express.js, Managing Packages with NPM, MongoDB and Mongoose*

## Professional Experience

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### **PowerSouth Energy Coop | Andalusia, AL** **Programmer / Analyst II | April 2021 - Present**

- Collaborate with the development team to design, develop, and maintain robust software solutions, focusing on streamlining processes and automating workflows.
- Extensively use SQL and PL/SQL for database development, management, and performance optimization of complex applications.
- Engage in designing and implementing database architecture, ensuring efficient data management and integration.
- Conduct data analysis and visualization, producing business intelligence reports tailored for various stakeholders.
- Develop algorithms and systems to handle intricate workflows and business processes, enhancing overall software reliability.
- Coordinate with cross-functional teams, ensuring successful and timely project deliveries.

### **Lincare Inc. | Andalusia, AL** **Service Representative | January 2014 - December 2018**

- Coordinated medical care among multiple healthcare organizations to timely exchange information, aiming at optimizing patient outcomes and enhancing the overall care experience.
- Conducted thorough clinical reviews of submitted medical documentation with accuracy, following industry standards.
- Served as subject-matter-expert and provided training and consultation, empowering patients, doctors, administrators, and other stakeholders to make informed decisions and enhance care outcomes.
- Effectively represented the business to customers and stakeholders at all levels, demonstrating a commitment to client satisfaction through office, field, and 24/7 on-call support.

## Core Competencies

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Software Design & Integration, Data Analysis, Data Science, Database Development, Object-Oriented Programming, Data Structures & Algorithms, Performance Optimization, Back End Development

## Technical Skills

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**Programming Language:** Python, SQL, JavaScript, Core Java, Node.js

**Database Development:** PL/SQL

**Library:** Django, Flask, FastAPI, Express.js, NumPy, Pandas

**Tool:** Git, Jupyter Notebooks

**Operating system:** Linux, Windows

**Containerization:** Docker

**Website Development:** HTML/CSS

**Relational Databases:** Oracle, PostgreSQL

**NoSQL Databases:** MongoDB, Redis

**Cloud Fundamentals:** AWS, Linode

**Data Interchange:** JSON, XML

## Projects

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### A\* Heuristic Search

*Python | Algorithm Design | Computer Science*

An algorithm to solve Sliding Block Puzzles. By default, the algorithm is a Uniform Cost search, if a heuristic function is supplied it is used in the Path Cost calculation for new Nodes and the algorithm becomes an A\* Search.

### Containerized URL Shortening Service

*Docker | Python | PostgreSQL | FastAPI | JSON*

A containerized URL Shortening Service with an internal write-beside cache and PostgreSQL database built with Docker Compose.

### Flask Tickets

*Flask | Oracle 19c | HTML | CSS | JavaScript*

A classic ticket tracking application featuring basic authentication with user accounts and role-based authorization with three privilege classes.

## Professional Development

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Python for Data Science, AI & Development - Coursera, 2022

Databases and SQL for Data Science with Python - Coursera, 2022

Machine Learning with Python - Coursera, 2022

AWS Technical Essentials - AWS, 2022

MongoDB Data Modeling Intro - MongoDB, 2023

Data Warehousing Workshop - Snowflake, 2023

KICKOFF: Agile Project Management – PMI, 2023