

# LEWIS GARVIN

## DATA ANALYST

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## SUMMARY

I love to roll up my sleeves and work hands-on with data, using technology to organize and explore data and bring it to meaningful life for others. With over 10 years of experience working on software development and business analysis projects, my favorite projects have involved ad hoc analysis using SQL, reporting and metrics design, data modeling and ETL for data warehousing, and creating reports in Excel. I am a detail-oriented problem solver with strong analytical and conceptual skills who values continuous learning, collaboration with diverse teams, and the opportunity to help others.

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## SKILLS

- **Tools:** SQL, Python (pandas, Matplotlib, Seaborn, and other libraries), Excel (Lookups, PivotTables, PowerPivot), Power BI, Tableau, Git/GitHub, PostgreSQL, erwin Data Modeler, Toad Data Modeler, PostgreSQL, Oracle, SQL Server
- **Concepts:** data analytics, data modeling, business intelligence, data warehousing, ETL, Agile/Scrum, requirements analysis, user acceptance testing, GUI design, UML, SDLC

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## EXPERIENCE

### Data Analyst Apprentice | Nashville Software School

Sept 2022 – Present

- Intensive full-time bootcamp focusing on data analytics fundamentals and problem solving. Used real-world datasets and included projects where findings were presented to stakeholders from the community.
- Managed projects using GitHub for task and issue tracking and source code version control.
- **Projects**
  - Insight Timer Capstone: Analyzed catalog and performance of guided meditations and teachers on Insight Timer app, creating Matplotlib and Seaborn data visualizations to identify opportunities for new teachers. Wrote and deployed batch processing functions in Python, pandas, and Selenium to web scrape data for 16,000 meditation teachers and 60,000 meditations.
  - Affordable Housing: Performed exploratory analysis of property sales data from PostgreSQL, SQLite, and Excel sources, finding evidence that affordable housing developments in Nashville do not lower local property values.
  - NashvilleHub: Developed Tableau and Power BI dashboards that provide overview of requests for Nashville city services with dynamic filtering by district, status, request type.
  - Lahman Baseball: Used SQL queries in PostgreSQL to analyze real-world baseball statistics, including variety of joins, aggregate functions, subqueries, and CTEs.
  - Nashville Downtown History: Created interactive maps of historical markers and preservation awards in downtown Nashville using GeoPandas and folium.

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**Freelance Consultant****2016 – Present**

- Created market analysis in Excel for long term care facilities in Louisiana that shows comparable population, income, and facility capacities for every parish and metropolitan area in the state; client used analysis to obtain financing and further expand their existing facility.
- Created sales reports in Excel for specialty retailer that integrated data from three sales channels; also installed and managed Point of Sale system and filed monthly sales taxes.
- Analyzed demographic data with mapping tools to identify zip codes in art gallery's target market.

**Senior Business Analyst for Healthways | Hewlett Packard Enterprise****2011 – 2015**

- Defined 188 SQL Server tables in ERwin and requirements for Extract, Transform, and Load (ETL) of data from Oracle source tables; created SharePoint and Excel tools to track tables through development life cycle; resolved system and user acceptance testing issues.
- As liaison with Business Intelligence (BI) and Reporting teams, established template for BI and reporting requirements used by Business Analyst team; created report prototypes and metrics.
- Designed dimensional data model for data warehouse, including information requirements and data sources, based on analysis of reports and interviews with business and technical experts.
- Elicited, documented, and reviewed system requirements, use cases, and activity flows with HPE and client experts for multiple projects.
- Managed use of HPE Application Lifecycle Management (ALM) software by 10 Business Analysts as repository for 1500+ customer-approved requirements for 55+ development initiatives.
- Documented root cause, resolution, and testing needs of critical issues for maintenance team.

**Senior Knowledge Engineer | Applied Systems Intelligence (now Veloxiti)****2005 – 2010**

- Promoted from Knowledge Engineer to Senior Knowledge Engineer in 2007.
- Conducted extensive client interviews and delivered requirements, process and domain models (UML), high level designs, and business cases for knowledge-based systems to improve business processes at travel packaging and medical testing companies.
- Developed expert system that estimates home values within 12% of professional appraisals; for this and other projects, elicited knowledge from experts, modeled business rules in knowledge bases, and conducted user acceptance testing.
- Designed functionality and user interface of tool for managing Agile development projects.
- Managed content creation for 50+ webpages for new company website; made significant contributions to site organization, page layout, and graphic design.

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**EDUCATION**

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**Nashville Software School**, Data Analytics Certification, Graduation Expected January 2023**University of Michigan**, MBA with High Distinction & MS in Natural Resources**University of Chicago**, BA in Mathematics with Honors, Phi Beta Kappa

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