

Technical Lead**Career Profile**

Technical Lead with 10+ years of experience developing software, transforming specifications and use cases into reliable and accessible software. Proven track record of implementing novel solutions using emerging technologies, including LLMs and custom transpilers. Strong background in research-driven engineering and cross-functional team leadership.

Technical Skills

- **AI/ML Technologies:** Large Language Models, Natural Language Processing, Synthetic Data Generation
- **Programming Languages:** Python, Scala, Java, Kotlin, C++, TypeScript/JavaScript, C#
- **Frameworks & Tools:** Apache Flink, Apache Spark, Spring, React, Angular, .NET
- **Databases & Systems:** MongoDB, PostgreSQL, RocksDB, Distributed Systems
- **Development Tools:** Docker, Git, Jenkins, SonarQube, Jira

Core Competencies

- Effective decision maker
 - Proficient written and oral communicator
 - Competent team player
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Professional Experience

Motive Medical Intelligence CA

October 2023 - Present

Technical Lead

Responsible for developing novel and well researched solutions for the hardest client problems.

Technical Performance:

- Led development of an AI-powered system leveraging LLMs to convert natural language clinical rules into portable Clinical Quality Language code
- Architected and implemented a custom transpiler for translating Clinical Quality Language into SQL, improving query performance and maintainability
- Directed cross-functional teams in developing low-code/no-code solutions for clinical query building
- Collaborated with stakeholders to gather requirements and design scalable AI-driven solutions

Ballista Technology Group FL

September 2021 - September 2023

Technical Lead/Research Engineer

Responsible for developing novel and well researched solutions for the hardest client problems.

Technical Performance:

- Implemented the RAFT algorithm within RocksDB as a feasibility study for creating a distributed version of RocksDB
- Led a team of engineers in designing and implementing a transpiler that translated Clinical Query Language to Flink SQL
- Consulted original published research to devise novel solutions that accelerate performance gains in key bottleneck areas of Clinical Decision Support engines
- Created solutions to generate arbitrarily large synthetic patient datasets using randomization and differing distributions for key data elements
- Worked with external clients and stakeholders to gather requirements and design custom solutions on top of Apache Spark

Moser Consulting Indianapolis, IN

July 2020 - Present

Senior Software Engineer

Responsible for designing and implementing large scale web solutions utilized by half a million active users. Responsible for actively ensuring the timely delivery of performant and secure software.

Technical Performance:

- Provided design and implementation of Java Spring based web application with Angular front end
- Responsible for ensuring all software complied with unit test coverage standards and met code quality standards through rigorous code review and automated tools such as SonarQube
- Designed solutions using CQRS design pattern built on top of the Axon framework
- Implemented GitFlow branching strategy and cleaned up existing branches to decrease time spent on realigning branches after releases
- Aided in requirements gathering and creating user stories as well as design of large scale web application solutions
- Implemented backend solutions using .NET technologies and modular monolithic architecture

LHP Engineering Solutions Columbus, IN

August 2016 - July 2020

Senior Software Engineer

Responsible for designing and implementing enterprise scale software solutions utilized by other engineers in the process of designing and testing electronic control modules and sensors for diesel engines.

Technical Performance:

- Implemented and tested secure applications using native C++
- Created wrappers in C++/CLI to expose native libraries to .NET Stack
- Designed and built UIs using WPF with MVVM design pattern and C#
- Decompiled and examined assembler code to determine security flaws and vulnerabilities
- Created automated testing processes to comply with industry standard best practices
- Lead a team of developers in implementing enterprise scale software solutions affecting thousands of engineers.

Grote Industries

Madison, IN

November 2015 – August 2016

Software Developer

Responsible for creating and maintaining ASP.NET websites, Windows Form applications, C#/VB programs, and JD Edwards E1 solutions

Technical Performance:

- Designed and implemented applications for automating business processes in VB, C#, JavaScript, Python and Java.
- Designed and implemented workflow apps for handheld RF devices used in warehouses
- Worked with DB2 system on an AS400 running JD Edwards World ERP system.
- Helped with the transition from JDE World to JD E1 system
- Maintained and extended existing ASP.NET internal websites automating and simplifying business workflows
- Designed and implemented new MSSQL Databases and implemented new application modules for user access.

May 2014 – October 2015

Software Developer

Was responsible for creating and implementing design specifications based upon Business Intelligence need using Java, C and Visual C# .NET

Technical Performance:

- Worked extensively in the field of application programming, application analysis, design of functions and programming.
- Worked with Visual Studio .NET using C# to implement new applications from the ground up
- Worked with Eclipse and Java to maintain and update new applications
- Created test cases and used unit testing as well as integration testing
- Utilized ASP.NET to implement and maintain existing internal website
- Created new web pages using BootStrap and JQuery

Education

B.S. in IT, Software Engineering

December 2016

Western Governors University | Indianapolis, IN

Master of Liberal Arts (ALM), Software Engineering

May 2021

Harvard University Extension School | Cambridge, Massachusetts

Data Science Graduate Certificate

December 2020

Harvard University Extension School | Cambridge, Massachusetts

Certifications

- Microsoft Technology Associate – C# Programming
- CompTIA Network+, Project+, Security+
- CIW Web Design Specialist
- Oracle Certified Java Associate