

# Mark Scherr

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## Career Highlights

**TalentReef/Mitrtech:** Engineered a real-time data lake pipeline by capturing SQL Server change data via Kafka Debezium, streaming JSON updates to Amazon S3 via Kafka Connect, and transforming data with AWS Glue PySpark and Athena into a dataset for visualization in Amazon QuickSight. This removed reliance on legacy Logi Report workflows and enhanced real-time results.

**Best Buy:** Designed and deployed a coupon code Java RESTful API backed by CockroachDB, linking visitor IDs to IP addresses and persisting coupon codes across both anonymous and logged-in sessions; ensuring slick redemption and usability of the offers.

## Software Engineer

With over 7 years of experience designing and modernizing scalable, secure systems across healthcare, retail, and managerial software platforms. Proficient in Java (Spring Boot, Java 17), Python, SQL, .NET, and React with hands-on experience building microservices, responsive frontends, and extracting metadata using Breadcrumbs for analytics and data visualization. Skilled in building real-time data pipelines using Kafka, AWS S3, AWS Glue, and AWS Athena as well as developing RESTful APIs, microservices, and secure authentication integrations with Azure Active Directory. Experienced in containerization and infrastructure automation using Docker, Kubernetes, and Terraform.

## Professional Experience

### Medica

**Senior Software Engineer Consultant** *Minnetonka, MN - 04/2024 – Present*

- Refactor data access in a .NET API, introducing new data source mappings and improving thread-safe interactions with the database.
- Enhance security by upgrading Python and Java applications to utilize Azure Active Directory Access.
- Create a robust data ingestion application utilizing Azure Blob Storage SDK for Java, converting public data into cost insights.
- Configure and update Red Hat Enterprise Linux (RHEL) 8 servers, ensuring security and compatibility with enterprise applications.

- Develop and maintain RESTful APIs using Java Spring Boot in order to adapt to dynamic business rules.

## **TalentReef**

**Software Engineer** *Denver, CO - 09/2021 – 04/2024*

- Integrated MS SQL Server to Amazon S3 using Kafka Connectors, enabling real-time data streaming for visualization in Amazon QuickSight.
- Replaced manual SQL workflows by designing and implementing RESTful APIs using Java Spring Boot.
- Modernized legacy systems by creating RESTful APIs strangulating ColdFusion Servers.
- Rapidly adapted to legacy technologies, including: ColdFusion, Logi Report, and Node.js.
- Extracted and analyzed metadata via Breadcrumbs from web applications using React and DynamoDB.

## **Kingland Systems**

**Software Engineer Consultant** *Aimes, IA - 09/2020 – 09/2021*

- Configured simulated production environments using Terraform to create an entire AWS Step Function app utilizing SNS, ECS, Lambda, Route 53, and IAM.
- Delivered comprehensive support for a monolithic Java EE application, ensuring compliance and system integrity through active monitoring.
- Improved user experience by implementing Angular ngx-translate for dynamic language support and field updates.
- Automated workflows by creating AWS Lambda using API Gateway, replacing less often used endpoints.

## **Best Buy**

**Software Engineer Consultant** *Richfield, IA - 09/2020 – 09/2021*

- Designed and implemented a RESTful API using Java Spring Boot for storing and accessing coupon codes between visitors and logged in users by linking IP addresses.
- Strengthened security by re-engineering the authentication service for a customer data management system.
- Boosted system performance by contributing to the development of numerous high-efficiency API endpoints.
- Enhanced consumer experience by adding a feature to label previously purchased items and the date they were purchased.

## **United Health Group R&D**

**Data Engineer Consultant** *Minnetonka, MN - 01/2019 – 06/2019*

- Conducted healthcare analytics using SQL, Python, and Java, presenting actionable insights to the United States Senate Committee on Health, Education, Labor, and Pensions.
- Improved data management by optimizing SQL Server and Teradata databases.
- Designed a Python application to populate databases and execute scripts, generating result tables to support critical decision-making.

## **ID Insight**

**Full Stack Developer Consultant** *Minneapolis, MN - 04/2018 – 10/2018*

- Developed Java microservices to filter databases based on fraudulent scores, transactions, and sub-companies.
- Created impactful stakeholder presentations by visualizing data through D3.js graphs.
- Improved data accessibility and efficiency by building a RESTful API with Java Spring Boot to handle obscure PostgreSQL requests.

## **Formal Education**

**Metropolitan State University**

St. Paul, USA. 2017

- Bachelor of Science in Computer Science

## **Interests**

disc golf, hiking, fishing, Star Wars, board games