

# Alex Welk

## Senior Software Engineer/Technical Lead

Passionate Senior Software Developer and Technical Lead with a proven track record of incorporating constant innovation, solving complex problems and developing with consistent quality. Reliable and dedicated to increase efficiency and quickly resolve hurdles.

Committed to developing a productive engineering culture and environment through mentoring, standardization and collaborating across teams.

## Work History

2024-03 -  
2024-06

### Solutions Architect

*Onyx IQ, Atlanta, GA*

- Bridged gaps in legacy systems with modernized solutions that increased overall efficiency and scalability while reducing development time.
- Evaluated emerging technologies to stay current on industry trends, making informed decisions for technology adoption.
- Engaged with customers to gather feature requests and evaluated their technical feasibility for product enhancement.
- Proactively identified and documented critical security vulnerabilities, proposed effective solutions, and presented findings to technical staff, significantly enhancing company's security posture.
- Implemented database replication across multiple read-only instances and optimized traffic routing, effectively reducing database load by 75% and eliminating customer impact.

2021-12 -  
2024-02

### Tech Lead

*BetterCloud, Atlanta, GA*

- Worked with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability, and performance

## Contact

### Address

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### Phone

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### E-mail

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### LinkedIn

linkedin.com/in/alex-welk/

### WWW

alexwelk.com

## Languages

Java

Groovy

TypeScript

JavaScript

Kotlin

SQL/NoSQL

## Skills

Spring Boot

REST

Gradle

JUnit

Cucumber

- Documented software development methodologies in technical manuals to be used by fellow team mates and colleagues in future projects
- Maintained cross-team workstreams and mitigated blockers to release multiple key deliverables 3 months ahead of schedule
- Created proof of concepts for innovative new solutions and presented findings and suggestions for adoption of new technologies to architects and directors
- Led software development initiatives as subject matter expert and primary point-of-contact for project management staff

2021-07 -  
2021-12

## Senior Software Engineer

*BetterCloud, Atlanta, GA*

- Designed, architected, and led implementation team to develop data ingestion pipeline that secured \$5M third-party contract
- Improved existing infrastructure system to process over 6B events daily by utilizing Google's BigTable scalability and throughput
- Hired and mentored junior developers to scale out entirely new development teams to accelerate time to deliver releases
- Worked with Product leadership to organize long-term roadmap goals to then break down said goals into shorter term deliverable items for teams
- Led seminars to advocate for development best practices, new technology adoption and standardization of documentation, testing strategies and code reviews across all engineering

2019-06 -  
2021-07

## Software Engineer 2

*BetterCloud, Atlanta, GA*

- Created automated testing suites to reduce time to delivery and promote more frequent releases
- Coordinated with other engineers for feedback when designing new internal APIs using OpenAPI specification
- Spearheaded use of in-house built egress gateway to reduce time needed for teams to integrate with

Docker

Kubernetes

Google Cloud Platform

SOAP

CI/CD

Spark/Hadoop

GRPC

Angular

Maven

ElasticSearch

Jira

Azure DevOps

Jenkins

GitLab

Kafka

third-party APIs

- Reviewed project specifications and designed technology solutions to ensure that load testing results met or exceeded performance expectations
- Worked with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability, and performance

**2019-02 -  
2019-06**

## **Software Developer**

*BetterCloud, Atlanta, GA*

- Collaborated on stages of systems development lifecycle from requirement gathering to production releases
- Revised, modularized and updated old code bases to modern development standards, reducing operating costs, and improving functionality
- Redefined metric and logging practices to reduce annual hosting costs by \$40K
- Collaborated with project managers to select ambitious, but realistic coding milestones on pre-release software project development
- Designed intuitive graphical user interfaces for internal tools to assist support teams in resolving customer facing issues

**2015-05 -  
2019-02**

## **Software Developer**

*General Motors, Roswell, GA*

- Designed architecture for high-availability cloud-based applications
- Increased maximum throughput of application by 12x
- Collaborated with business, testing teams, and developers to gather requirements, design test cases, coordinate project planning
- Spearheaded initiative to achieve 90% code coverage among developers
- Led development teams using multiple development strategies including agile and iterative
- Reduced incident tickets by 36% while supporting 40% increase of users

## Education

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2010-08 -  
2015-05

### **Bachelor of Science: Computer Science**

*Georgia Southern University - Statesboro, GA*

Focus in Software Engineering; Minor in Music  
Technology

- Graduated Summa Cum Laude Honors Student
- Member of Upsilon Pi Epsilon Honor Society
- Member of Phi Mu Alpha Sinfonia
- Participated in multi-institutional research study to optimize physics simulations