
Alex Welk

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Senior Software Engineer/Technical Lead

Senior Software Developer and Technical Lead with a proven track record in innovation, problem-solving, and quality system design and development. Focused on boosting efficiency and delivering scalable solutions to overcome business challenges swiftly. Committed to fostering a productive engineering culture through mentoring, standardization, and cross-team collaboration.

SKILLS

Languages: Java, Kotlin, TypeScript, JavaScript, SQL/NoSQL

Tech: Spring Boot, Kubernetes, GCP, AWS, Database Design, REST, SOAP, Kafka, ELT/ELT, Spark/Hadoop

WORK EXPERIENCE

Senior Software Engineer **10/2024 - 06/2025**
Rocket Partners • Atlanta, GA

- Built and maintained Terraform infrastructure and CI/CD pipelines to streamline service deployment, while introducing cross-team best practices to reduce service dependencies and improve system modularity.
- Introduced new testing paradigms by enforcing code coverage and integration tests through build pipelines while working with stakeholders to include automated regression suites in projects' definition of done.
- Developed robust and resilient IoT software with remote monitoring and automatic failover, ensuring uninterrupted operation across thousands of devices.

Solutions Architect **03/2024 - 06/2024**
Onyx IQ • Atlanta, GA

- Proactively identified and documented critical security vulnerabilities, proposed effective solutions, and presented findings to technical staff, significantly enhancing company's security posture.
- Engaged with customers to gather feature requests and evaluated the technical feasibility for product enhancement to improve customer user experience.
- Implemented database replication across multiple read-only instances and optimized traffic routing, effectively reducing database load by 75% and eliminating customer impact.

Tech Lead **12/2021 - 02/2024**
BetterCloud • Atlanta, GA

- Designed, architected, and led implementation team to develop data ingestion pipeline that secured \$5M third-party contract.
- Guided software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability, and performance.
- Mentored and upskilled engineers via design reviews and tech strategy docs, fostering a culture of ownership and technical excellence.

Senior Software Engineer**07/2021 – 12/2021****BetterCloud • Atlanta, GA**

- Improved existing infrastructure system to process over 6 billion events daily by utilizing Google's BigTable scalability and throughput.
- Partnered with Product leadership to strategize and organize strategic roadmap goals, translating them into actionable, short-term deliverables for cross-functional teams.
- Drove end-to-end ownership of mission-critical services, delivering scalable technical solutions while reducing time to delivery from months to weeks and creating clear business impact.

Software Engineer II**06/2019 – 07/2021****BetterCloud • Atlanta, GA**

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

Software Developer**02/2019 – 06/2019****BetterCloud • Atlanta, GA**

- 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 prioritizing and resolving customer-facing issues with data-driven decision making.
- Participated in continuous improvement reviews with SRE to identify tech debt and develop and execute strategies to reduce infrastructure costs.

Software Developer**05/2015 – 02/2019****General Motors • Roswell, GA**

- Collaborated with business, testing teams, and developers to gather requirements, design test cases, coordinate project planning.
- Championed initiative to achieve 90% code coverage among developers.

EDUCATION**Bachelor of Science in Computer Science**

Georgia Southern University • Statesboro, GA

08/2010 – 05/2015

Focus on 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