Walton Hoops

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Summary

Software Engineer with 15 years of experience building analytics tools, mobile applications, and IT teams. Strong track record of driving innovation through IT infrastructure and software development.

Experience

Senior Software Engineer at SOLTECH - Remote   May 2022 - February 2023

- Refactored existing form triggers implementation into a coherent API and clearly defined feature set.
    - Researched existing code while working closely with the product team to build out a formal feature set.
    - Migrated all functionality to a new centralized API with blueprints for adding new trigger types and conditions.
    - Resolved numerous bugs and inconsistencies in the existing implementation.
- Worked to implement entity-level audit logging across all services for compliance purposes.
- Discovered and fixed multiple security vulnerabilities.

Senior Software Engineer at Guaranteed Rate - Remote   May 2021 - May 2022

- Worked on microservice-based loan origination platform handing over 5,000 active users and processing more than 1 million loan events per day.
- Implemented transient PR environments for our primary user-facing service.
    - Automatically created and tore down isolated Kubernetes environments for every PR.
    - Allowed for testing changes in isolation and protecting the main branch from untested code.
    - Significantly reduced pain in preparing weekly releases.
- Deployed APM throughout micro-services and used metrics to reduce deployment impact.
    - Ended the need for after-hour releases allowing for quicker release of hotfixes or high-priority features.
- Spearheaded development converting services to multi-tenant in order to dramatically reduce necessary work in launching new joint ventures.

Director of IT and Development at Impact Group - Boise, ID (Remote)   December 2017 - May 2021

- Led a team of 16 software developers, system administrators, and help desk personnel.
    - Navigated a period of dramatic company growth, expanding from 120 to 1700 employees, with only 2 additional IT staff.
- Recommended and oversaw migration from Azure cloud to Rackspace dedicated hosting environment.
    - Savings of just over $100,000/year.
    - Added 24/7 support and monitoring, significantly reducing response times and freeing up staff to focus on projects driven by business needs rather than maintaining infrastructure.
- Oversaw adding features to our proprietary retail management platform to accommodate the needs of our newly acquired companies, also acting as an individual contributor.
    - Developed integrations for exporting to and importing from 3rd party management platforms.
    - Successfully onboarded a dozen newly acquired companies, two as big as Impact itself.
- Oversaw and participated in development of new data warehousing systems designed to allow our users to interact with far more data, while still maintaining the same user-friendly interface.

Technical Lead at Impact Group - Boise, ID   February 2014 - December 2017

- Led a small software team through developing a replacement for a botched outsourced mobile app.
  - Initial release was accomplished in 8 months, adding new features with 1/3 the lines of code.
  - Cited as the number one reason clients chose Impact Group in our onboarding surveys.
- Scaled analytics software and hardware to integrate data from hundreds of new retailers.
  - Quadrupled stored data, while reducing integration time by half, allowing for future growth.
- Introduced Clojure to the development environment, mentoring developers on Clojure, mobile, and web development.
- Introduced and integrated Agile methodologies into team's daily workflow.

Systems Architect at Impact Group - Boise, ID   January 2013 - February 2014

- Designed and implemented a custom consolidated retail management platform based on existing solutions and practices in various regional offices. This became a core part of the business and collected data is used in virtually all client interactions.
- Oversaw and implemented virtualization of server infrastructure, reducing the needed physical servers by 75% and improving backup and fail-over processes and reliability.

Software Developer at Impact Group - Boise, ID   January 2007 - January 2013

- Realized need for and developed a centralized queue for importing data from our providers. Results were 3 times faster than the previous application and streamlined analysis procedures.
- Designed and managed Microsoft SQL databases.
- Developed wide variety of web applications using C#, Java and scripts in Ruby.

Technical Skills

Languages	Clojure, Elixir, Kotlin, Java, C#/.NET, Ruby, JavaScript
Software	Nginx, IIS, Emacs, Vim, Intellij IDEA
Databases	Microsoft SQL Server (including Reporting Services/Analysis Services), PostgreSQL and Datomic
Operating Systems	Windows Server 2008/2012, Linux, FreeBSD
Devops	Terraform, Ansible, Kubernetes

Education

Bachelor of Science, Computer Science
Boise State University, Boise, ID, May 2009

Activities

Mendicant University - Participated as both student and mentor

Side Projects

- dmarced - an RFC7208 complaint SPF engine written in Clojure
- Serenity - a simple web based music player written in Haskell and Angular
- Kurento Client - an Elixir client for the Kurento WebRTC server
- Tilted Lifts - a simple weight lifting tracker built using Elixir/Phoenix/Absinthe and Typescript/Svelte (source available on request)