David Kleinschmidt

Senior Staff Software Engineer

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Software engineering lead with 25 years' experience implementing high-volume web applications and big data systems, transitioning to a role of technical leadership. Directed a team through a delicate no-downtime migration of a 33 TB database on a three-month timeline, communicating status with internal & external stakeholders.

WORK EXPERIENCE

Senior Staff Software Engineer   October 2022 – Present

Jack Henry & Associates, Monett, MO

Advised and advocated for four engineering teams comprising 20 full-time engineers.

- Liaised with another team to build a cross-data center synchronization pipeline that now handles 500 million financial transactions per month.
- Managed migration of a database of 20 billion financial transactions from Azure CosmosDB to Google Cloud Spanner.

Senior Advisory Software Engineer   April 2013 – October 2022

Jack Henry & Associates, Monett, MO

Scaled startup through acquisition to 10× performance. Spearheaded integration efforts.

- Stabilized monolithic Rails application that was causing at least one incident per week.
- Profiled & optimized categorization engine. The optimizations have been running for 10 years, scaling with the business to 10 times the previous throughput with 80% fewer EC2 instances.
- Designed a high-volume, cost-managed data storage & processing pipeline. This has scaled to handle 550 million transactions per month with a sustained throughput of 2,500 writes per second.
- Implemented an integration for over 300 banks, serving as the primary technical point of contact.

Senior Software Engineer   January 2010 – April 2013

Liaison International, Watertown, MA

Developed greenfield medical school application review suite used by admissions officers.

- Collaborated on an ETL to consolidate medical school applications for 14 different professional associations into a common data warehouse.
- Devised reporting backend enabling users to filter candidates on hundreds of data points.

Software Engineer   March 2008 – January 2010

Subcontractor for New Era Cap Company, Buffalo, NY

Broadened availability of product development tools with innovative visualization solutions.

- Designed a Web-based embroidery customization tool to shorten product time-to-market.
- Produced catalog for national retailers to visualize speculative product designs with different logos and colorways, to gauge market interest before committing to mass production.

Additional experience   May 1998 – March 2008

An unabridged version of this resume is available on GitHub.

EDUCATION

Rochester Institute of Technology, Rochester, NY

Bachelor of Science — Computer Science