Erik Hefferly

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ABOUT ME

I am a software engineer who enjoys solving business problems and building high quality software to meet customers needs. I am a leader and a team player who values clearly written, scalable, and maintainable systems that provide the best possible solution for my users.

SKILLS

Leadership, Active Listening, Agile, Teamwork, Adaptability, Mentoring, Communication, Writing, Architecture

TECHNOLOGIES

TypeScript, Node, React, Docker, LDAP, Kotlin, Java, Spring Boot, JPA, SQL, CI, Liquibase, AOP, OpenShift, RabbitMQ, HornetQ, Keycloak, OAuth, REST, JMS, J2EE, Camel, JSP, ASP, COBOL, CICS, JCL

EDUCATION

Missouri S&T - Rolla, MO *(1987 - 1989)*
B.S. - Computer Science

BAC - Belleville, IL *(1985 - 1987)*
Associates of Science

PROJECTS

Chip - Creator and contributor to a CLI tool developed to manage a suite of microservices in local environments. Supports Node, Kotlin, Java, and leverages docker for infrastructure such as databases and queues. Currently used by several teams at Unigroup.

Android Accessibility App - Created a simplified phone app for my father with dexterity issues. Displayed a list of contacts, upon touching a contact, a confirm prompt would ensure the call was necessary. This app provided a 180 degree pivot for my father who was about to quit using a smartphone.

PROFESSIONAL EXPERIENCE

UniGroup, St Louis — *Lead Software Engineer*   Jan 2016 - Present

- Full stack developer using React, TypeScript, Spring Boot, Kotlin, and PostgreSQL. Leading a team of 4 engineers, I designed and built a system that enabled our agents to configure their service areas for customer leads. This increased efficiency as agents now get targeted leads, customers are immediately routed to the appropriate agent, and marketing can pinpoint geographic advertising. These efficiencies eliminated over $2,000,000 in annual expenses and increased our customer conversion rate by 30%.

- Led a team of 3 engineers building an international order management system which integrated with the "U.S. Blocked Person List". I designed and implemented a highly configurable business rule engine along with an interactive dashboard providing visibility for all critical tasks. Move coordinators increased their order portfolio by ten-fold saving the company over $2,000,000 per year in reduced errors, improved efficiency, and less staff, while managing 1000+ orders per month.

- Designed and built a "Final Mile" system in 12 weeks using React, TypeScript, Java, PostgreSQL, and RabbitMQ. My team created a new revenue stream by allowing our agents to deliver bulky items to customers. We ingested orders from our partners, provided a dashboard for planners, enabled them to assemble manifests, and integrated with the driver's mobile app giving full visibility. Within three months of launch 7000+ orders had been delivered through this new system.

- Joined the Platform team and helped architect and build a PaaS solution to create a paved road for engineers to quickly create and deploy new applications. I also created customized docker images that supported Java, Node, NGINX, and Python. I am proud to have made such drastic improvements to the developer experience. New application setup time was reduced from 2 weeks to mere minutes. To date, over 17,000 microservices have been deployed to production on this platform.

- See Addendum for additional accomplishments.

BJC HealthCare, St Louis — *Software Engineer*   March 1996 - May 1997

- Worked with stakeholders to understand their legacy medical hardware. Researched and identified risks and effort necessary to migrate data to another platform. Shared findings with legal dept who decided migration was not necessary. This saved the company $400,000 in unnecessary expenses.

- Worked with a team of 4 engineers to build software that integrated hospital patient data with a new lab system.

Unigroup, St Louis — *Senior Software Engineer*   April 1992 - March 1996

- Led an effort to prove out a new tech stack and develop tooling to improve developer productivity and deliver systems quicker with fewer engineers. Delivered the MVP in 3 weeks.

- Used new tools to replace a pricing system that housed 10,000+ rates for shipping routes. Required 30+ applications to support this effort and was implemented with only 2 developers in a few weeks thanks to the templating feature. The work reduced new apps from days to hours.

Datatronics, Fort Smith — *Software Engineer*   January 1990 - April 1992

- Supported transportation applications using Assembler, Cobol, CICS, and DB2.

- Interviewed load planners to understand their current job and identify ways to improve shipment visibility. I designed and implemented the first system that gave planners visibility to shipments before they arrived at distribution centers. This system enabled planners to pre-plan operations at hundreds of docks across the U.S., directing 5000+ workers, managing 10,000+ shipments per day. Planners loved this system because it significantly reduced errors and improved the efficiency of the entire network.

ADDITIONAL ACCOMPLISHMENTS

Unigroup, St Louis — *Senior Software Engineer*   May 1997 - Jan 2016

- Using Java, Spring Boot, Postgres, and Javascript, I was part of a large effort to develop a Warehouse Management/Invoicing System. The initial development began with a remote team in San Francisco. I was the first St Louis developer chosen to understand the project and architecture. I architected the invoicing component and led a team of 3 engineers to develop this app while also mentoring other teams that were spun up to support this effort. The role I played allowed Unigroup to save $10,000+ dollars in travel expenses as I was able to support teams in St Louis that would otherwise have traveled to San Francisco. When WMS launched with its first agent, the invoicing system successfully processed hundreds of transactions per day producing monthly invoices for customers.

- I created new web services using Java and Spring that allowed Unigroup to programmatically store and retrieve documents in a content management system (CMS). Prior to this, users in all departments had to use the proprietary screens and scanning systems. With these new services, over 20 systems quickly embraced the ability to retrieve contextual documents for their users more than doubling their efficiency when document retrieval was required. Seeing the company enable users to quickly have access to the over 100,000 orders per year was a truly rewarding experience.

- It became a legal requirement for all crew members to have a badge with their title and picture. I enhanced a Service Crew System (written in Java and Spring) to include a new feature to allow picture uploading and badge generation. Prior to this feature, each of our 2000 agencies were trying to create badges with whatever technology they had at each location. This project resulted in consistent badge generation for 20,000+ crew members across 2000+ agencies which met standards and reduced legal risk. It provided an audit point for headquarters, verifying crew members had been vetted and that badges had been generated at the appropriate time, again reducing legal risk. Each agency could now simply print a badge using a browser and a simple printer.

- Sole developer who worked with stakeholders and built a Driver Gateway(DG) using Java, Spring, and DB2. Prior to this, drivers had no access to any order information until they checked in with an agency. I built the DG as a mobile friendly web app and brought together all the critical information a driver would need such as household and logistics orders, dispatching information, a messaging application, agency location information, and most importantly the ability to view and retrieve electronic documents. This enabled 10,000+ drivers to print legal documents from their smartphones in their cab. This sped up delivery times and saved countless hours for drivers who had to wait until an agency office opened in order to retrieve the proper legal documents. Having access to the order information and the messaging app was an invaluable asset for the drivers.

- One of three people chosen to write the first Java app to distribute internet leads to agencies. Customers requesting information would submit their zip code. I wrote a round-robin routine that would find the next available agent within a certain radius, and notify the agency of the user's details so they could be contacted with a quote. In the first year of use, Unigroup realized $15,000,000 dollars in additional revenue directly due to this internet leads program.