

Kevan Simpson

kevan.simpson@gmail.com ([LinkedIn](#), [GitHub](#))

EXPERIENCE

Software Development Engineer, *BlueCrew*, Portland, OR; October 2023 - May 2024

- Lead engineer on Timestamp Audit Trail, integrating timekeeping with legacy endpoint to provide timestamp edit history + extensive React changes to match Figma diagrams
- Migrate internal payroll portal to new AWS Cognito pool using proxy endpoint across two legacy services
- Enhance core platform and applications for customers + on-call rotations

MTS (Master Technical Skills) Software Engineer, *eBay*, Portland, OR; May 2020 - May 2023

- Responsible for framework to deliver recommendations across the site, including two applications and nine libraries across four Git repositories for maximum reuse
 - Lead engineer on Marshmallow, a Kotlin, configuration-driven, orchestration application in Spring Boot, replacing legacy Merch application with approx. 80% feature parity at MVP launch
 - Developed Smores application, providing composable configuration to both legacy and new Merch applications via REST endpoints and Nudata Monstor (nosql) document storage
 - Includes open source API for all aspects of recommendation orchestration: configuration resolution, listing hydration, algorithm analysis, post processing, tracking, and configuration-driven Dynamic Item Cards
- Feature enhancements, bug fixes, and production support for legacy Merch Front End application

Full Stack Engineer, *Azlo*, Portland, OR; April 2019 - May 2020

- Develop NodeJS/Typescript microservices in support of fee-free banking for small businesses utilizing Mongo collections, deployments in Kubernetes, and managed by Gitlab CI
 - Extract legacy Verifications collection into new service, including KIS client paradigm
 - Configurable ETL service using MongoDB Watcher API to stream data to pluggable outputs (AWS S3, Kafka, local filesystem) for Data Science Team
- Implement Optimizely integration from POC to production-ready Typescript module
 - Includes integration into 10+ services and migrating feature flags to Optimizely UI

Java Developer (QA role), *USBank*, Portland, OR; December 2018 - February 2019

- Develop test harness for Know Your Customer (KYC) application
 - Port Java code from JMeter BeanShell scripts, simplify creation of robust test POJOs

Senior Software Engineer, *Finity Communications*, Portland, OR; December 2017 - October 2018

- Assist implementation of ETL application using MapForce EDI and Apache Nifi
- Reimplement ETL application with Spring Boot + Camel and guided team towards pivot away from Apache Nifi
- Develop anonymizing application to redact Private Health Information (PHI) following Safe Harbor method from EDI records, pulled from AWS S3 buckets, local file system, or a combination of the two
- General duties include developing/refactoring monolith web applications into Spring Boot microservices and deploying as Docker images to AWS EC2 instances

Senior Software Engineer, *iovation*, Portland, OR; October 2015 - August 2017

- Guide full reconfiguration and upgrade of ActiveMQ broker architecture, including network failover and load balancing, optimizing internal Camel routes, and mentoring SRE in expected broker behavior
- Play key development role in [machine-learning scoring product](#), participating in intra-departmental team which subsequently became the model for product team alignment
- Design POC to deploy application stack in Kubernetes cluster using the Netflix/Spring Cloud stack, which involved an instance of Eureka inside the k8s cluster, exposed externally via a NodePort Service
- Consolidate legacy libraries, replaced with Reusable Application Tools (aka "RAT packs") to reduce technical debt and consolidate functionality with fun animal names: lizard, octopus, figwasp (SRE approved)!
- Learned enough Perl to support and extend legacy SOAP web service with traffic ~20mil messages/day

Software Engineer, *Online Business Systems*, Portland, OR; November 2012 - October 2015

- Implemented full ESB using JBoss Fuse product suite for local government agency to connect RMS system with CAD, Jail Management, and Property systems:
 - Architected complete ESB product with zero message loss, asynchronous auditing and process tracking, and *nix script to automate configurable installation of the ESB, JDK, firewall rules, etc.
 - Successfully designed hot-hot failover scenario, where the backup ESB container is fully started
- Developed interface for state law enforcement agencies to submit incident reports to both state police and federal agencies, consolidating submission into a single, standardized process
- Create customized reports leveraging XSL and Apache FOP

Software Engineer, DealerTrack, Inc., Portland, OR; March 2012 - October 2012

- Developed customer and dealer-facing web application to search for and finance a vehicle to purchase, including a RESTful service and MongoDB data repository
- Responsible for designing and implementing dealer feed mediator, which geo-locates dealers with 100,000 zip codes in under 5 minutes with 97% test coverage

Application Engineer, Nike., Beaverton, OR; August 2011 - November 2011

- Engineered event notification system, to enable integration across enterprise via JMS and JBoss Messaging
- Created notification servlet, a reusable component used by applications to integrate with event notification ESB by leveraging Spring's @Controller/@RequestMapping paradigm to handle notification routing

Web Developer, ODS Health Services (now Moda Health), Portland, OR; May 2010 - August 2011

- Engineer and support 8+ internal/external web/batch applications using a JSF/Spring/Hibernate stack
- Promoted build automation by "Mavenizing" dozens of internal projects, installed local Maven repository for department use, and developed core libraries which became part of the standard technology stack
- Installed department wiki and added dozens of pages describing team standards and conventions, common usage patterns of core libraries, and business processes relevant to applications in production

Senior Software Engineer, Sun Microsystems, Monrovia & Santa Clara, CA; September 2004 - February 2010

- Technical Lead/Architect for XSLT Service Engine, a JBI component to deploy XSL stylesheets as web service endpoints, which expose lightweight process-oriented transformations similar to BPEL
- Implemented stackable Java libraries to facilitate the building of JBI components, including Quality of Service, to standardize redelivery, throttling, and JMX-managed configuration for JBI components
- Assisted development of persistence and recovery for WS BPEL Service Engine
- Co-lead Engineer for Java Collaboration Editor, a graphical editor for Java web service implementations

Enterprise Architect / Application Associate, Safeway., Arcadia, CA; May 2000 - September 2004

- Inaugural member of Reusable Software Group, responsible for developing custom SOA framework and common utility library, mentoring development teams across build sites
- Lead on Demand Aggregation, an enterprise application to centralize procurement of perishable products, including integration with legacy mainframe systems, batch processes, and web services. (ROI: \$10b / 6yrs)
- Designated as Advanced Java Product Usage Expert (company-wide recognition)

EDUCATION

- B.S. Cognitive Science, Specialization in Computing, University of California, Los Angeles
- Sun Certified Java Programmer, 2002

GITHUB

- <https://github.com/kevansimpson/> (any repository w/ "advent" in its name is [how I learn new languages](#))