

Kevan Simpson

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

EXPERIENCE

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

- Lead engineer on Timestamp Audit Trail, creating new Kotlin/Spring Boot endpoint to integrate with timekeeping and legacy endpoints to provide timestamp edit history + extensive React changes to match Figma diagrams
- Refactor internal React payroll portal to new AWS Cognito pool using Kotlin/Spring Boot proxy endpoint across two legacy services and SplitIO to manage migration from legacy Cognito pools
- Enhance core platform and applications (Node/React/Angular) 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 Kotlin/Spring Boot applications and nine Kotlin libraries across four Git repositories for maximum reuse
 - Lead engineer on Marshmallow, a configuration-driven, orchestration Spring Boot application, 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 Java/Spring 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 Kubernetes 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](#))