Darren Gilroy - Software Engineer
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SUMMARY

I am a senior software engineer with fifteen years of experience who specializes in Java and data applications. Like all engineers, I like problem solving and the sense of accomplishment one gets from seeing something shipped.

Always taking leadership roles focused on mentoring and solution design, including incubating and leading a new agent platform at Tripwire and a new permissions system at Jive.

My particular focus is on on concurrency, queues, distributed systems, and scalable data design. I'm creative and innovative.

SKILLS

Programming

- **Java** – expert: including concurrency, memory and performance characteristics, and application design
- **Perl** – proficient: including regular expressions, Perl objects, file manipulation, forking
- **UNIX Shell** – skilled: including process control, shell programming, network communication
- **SQL** – expert: including partitioning, join types, materialized views, hierarchical queries, and analytics.
- **Big Data** – novice: including HBase schema design, internal design, Kafka queues, caching and clustering.

Databases

- **Oracle 8i, 9i, 10g** – expert: including database design, concurrency concerns, administration, backup and recovery, materialized views, index strategies and optimizer behavior
- **HBase** – novice: including HBase's internal design, schema and key layout, locking and visibility guarantees, operational concerns.

PROFESSIONAL EXPERIENCE

Jive Software
October 2011 - February 2013 (1 year 5 months)
Senior Software Engineer

As Senior Software Engineer on the Architecture Team at Jive, I was responsible for moving the Jive platform forward. This is a programming position focused on the underpinnings of the application: login, caching system, clustering, data access, permissions and similar. I lead a redesign and reimplementation of the permissions system. This included an implementation on a "NoSQL" data store (HBase).

Technologies: Java, HBase, Voldemort, Guice, Kafka, JSON, Protobuf, Spring

Tripwire, Inc.
April 2007 - October 2011 (4 years 7 months)
Senior Software Engineer

Upon exit, I lead architecture and programming practices at Tripwire. I designed and implemented a message-passing architecture, and supported 30 developers and three development managers in its implementation. I championed the introduction of inversion-of-control, enforced API separation, layered component design and event-based systems.

Earlier, I was focused on tactical rewrites of core components for performance, including algorithm parallelization, network optimization, concurrency whack-a-mole and database tuning. Also designed a data warehouse, and lead a team of C++ developers.

Technologies: Java, Oracle, SQL Server, MySQL, RabbitMQ, Protobuf, REST, Guice

Fujitsu America
May 2002 - April 2007 (4 years 6 months)
Software Engineer

Designed and implemented software for global website consolidation across all Fujitsu countries and business-units to www.fujitsu.com. I was responsible for overall architecture of the application, including software selection, functional specifications, schedule, implementation plan and final delivery. Led multiple iterations of the project, implemented code review and coding standards, established unit testing and component development. Planned and managed

successful transition to JBoss clustered application server.

The software supports webmasters in over 35 countries and languages. I have a deep understanding of internationalization and localization, global communication and large-scale deployments.

Technologies: Java, JMS, XML, XML Schema, XSLT, Oracle, Oracle PL/SQL and of course Perl.

Consonus, Inc.
July 1996 - April 2002
Senior Programmer

Lead developer at Consonus for six years, developed Internet e-commerce applications. Selected and implemented packaged applications, designed and built custom applications; and managed and supported our customer's custom applications. I was employee #4 at Consonus.

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