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https://github.com/dhenry0/samples

SUMMARY

I am looking to provide my advanced skills to a challenging Senior Software Engineer position that will use my strong background in server-side Java, databases and networking. I'm very interested in distributed computing.
I like projects that are high-throughput, highly scalable and core Java with concurrency, interesting algorithms, optimization and deep diving into technical issues.

COMPUTER SKILLS

Languages: Strong in Java 22, C, SQL. Some experience in shell scripts
Development Tools: Eclipse IDE, YourKit/JProfiler profilers, Git, Maven
Platforms: Linux, UNIX, macOS, Windows, AWS
Databases: Oracle, Postgres, MS SQL Server, MySQL, internals of custom ones, Hibernate
Networking: REST web services/APIs, TCP/UDP, SMTP, SNMP, CIM, WMI, TLS, RMI
Some of each/side project (see github): Cassandra

EXPERIENCE

Senior Software Engineer Nov 2019 - current
Madaket Health, Cambridge MA
- Java, REST APIs, MySQL Databases, Docker, SQS data backbone, Angular UI
- Automation (bots/RPA) and made an AWS QuickSight performance dashboard
- Lots of unexpected challenges, very hands-on: deployment, investigation, scale, suggestions
- Deep immersion in Java micro-service environment in AWS, Spring Boot/Spring MVC, Agile
- TDD/CI/CD: JUnit, JaCoCo, SonarQube, BitBucket Pipeline

Senior Software Engineer Jan 2018 - July 2018
iboss Cybersecurity, Boston MA
- Implemented performance, reliability and security improvements.
- Postgres database optimizations deployed to thousands of nodes.
- Diagnosed production problems.
- Worked with private cloud, co-located nodes, AWS S3
- Worked with Java, Spring, Tomcat and did the web UI parts for my features in AngularJS/ Bootstrap.

Software Engineer 4 / Senior Software Engineer March 2007 - June 2017
Rocket Software, Waltham MA
I was a top 3 core developer in a team of about 13 coders, working on a custom Java modular application framework for a suite of highly scalable performance and reliability monitoring products for global networks, IBM mainframes, DB2 databases and other verticals.
- Owned the monitoring half of the products' back-end and worked a lot with IP networks.
- Detail-oriented work like network protocol stacks, dynamic class building for modeling.
Worked on the internals of custom databases including time series, relational, transactional (non-SQL) and a JDBC/SQL front end that was connected to disparate data stores and models.

- Worked on a custom query language, event processing and analytics and in BI/OLAP with Hypercubes including writing an MDX parser.

- Dealt with huge JVM heaps, async I/O and high throughput requirements.

- Fixed memory usage problems, optimized performance with YourKit and class histograms. Customers included the NOCs at FedEx, Bell Canada, Chrysler and Sochi, Russia 2014 / Vancouver, Canada 2010 Winter Olympic Games.

Consultant (contractor) Feb 2006 - Jan 2007
BKP Technologies, Newton MA

- Developed applications with ColdFusion, Oracle and SQL Server for a drug safety service company, including a database comparison tool, a knowledge base system and reports. Updated and deployed other applications. Some of these applications were validated.

- Performed unit testing of database conversions, both manually and through development of PL/SQL test procedures used with the database comparison application.

Software Engineer 2000 - 2006
Versal Technologies, Lexington MA

- Over six years, led the effort to develop Versal Metabase and wrote nearly all of it. Metabase was a reusable Java network and database application framework and integration toolkit. This framework became the basis for almost all of Versal's projects, including the ones listed below and others in the hotel industry.

- Developed and maintained GSODirect, a group sales lead automation application at Starwood Hotels and Resorts. Running on 101 servers, this application delivered leads from central sales systems to local sales databases at 123 hotels, watched the leads for updates, returned data changes to the central systems and sent email to many users. Each server uses Oracle internally and communicates with SQL Server.

- Performed low-level development and reverse engineering for the Visa EDS Folio Interface. Installed on servers at hundreds of hotels, this application extracted detailed checkout and invoice data of corporate stays from hotel databases for delivery to the credit card company Visa International. For this project, I developed custom interfaces for old databases like xBase, Btrieve and Basis.

- Co-developed a custom-manufactured, branded rackmount server, called the Versal Metabox, running Linux on flash memory for remote integration installs. Developed an application to configure these servers and deploy applications to them for initial setup from configuration spreadsheets.

Self-Employed worked with friends
Wrote Apple games in assembly or C

EDUCATION
B.S., Computer Science
Drexel University Philadelphia, PA