

# GREG GABELMANN

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Kelowna, BC, Canada

I have fifteen years of experience delivering multi-tier applications. I enjoy all parts of the software development life-cycle and believe in frequent releases to Production.

## CAREER HISTORY

### Senior Java Developer, Global Relay (Permanent, 2019/02 – Present)

Senior Developer for Global Relay's *General Authentication Service* ("GAS"), a SAML 2 IdP and SP, and *Key Management Service* ("KMS"), a service for managing cryptographic keys.

- Technical Lead for the rewrite of KMS's Provision Key Microservice. It was updated to be a modern Spring Boot webapp with a Cassandra backend, and ran as part of a kubelet static Pod.
- Updated KMS to use cryptographic keys from Gemalto's SafeNet Hardware Security Modules.
- Improved the security of GAS by updating legacy libraries and fixing security vulnerabilities.
- Updated GAS so that it could be deployed in legacy environments, thereby reducing operational complexity and improving security for Global Relay's customers.
- Collaborated with Product Owners to write Stories, provide estimates, and prioritize backlogs.
- Tech summary: Java 8, Spring Boot, Thrift, Cassandra, etcd, SAML, Kerberos, and Fortify.

### Travel Throughout South America and Mexico (2018/07 – 2018/12)

Visited Argentina, Chile, Peru, Ecuador, and Mexico.

### Software Developer 4, Central 1 Credit Union (Permanent, 2016/12 – 2018/06)

Technical Lead for *User Management*, a webapp used by Credit Unions to administer and manage their staff's rights for internal services.

- Designed and led the implementation of User Management R4.0's flagship feature, Dual Approval Credit Union Apps, with completion 4 months ahead of schedule.
- Improved security by fixing vulnerabilities that were on OWASP's Top Ten list.
- Improved code quality by taking ownership of the Technical Debt backlog.
- Mentored team members through individual coaching and group lunch-and-learns.
- Tech summary: Java 8, JSP, Spring, SQL Server, SAML, and LDAP.

### Senior Java Developer, PageFreezer Software (Permanent, 2015/08 – 2016/12)

Senior Developer for PageFreezer's flagship SaaS, which allows Customers to archive websites and social media for compliance and eDiscovery.

- Added features to support the archival of complex websites, which enabled PageFreezer to win contracts with clients such as BlackRock.
- Reduced server load by 75% by tackling performance hotspots throughout the stack.
- Improved server stability by using LXC/LXD containers to isolate archive jobs.
- Wrote a new job scheduler which fixed long-standing bugs and could report real-time metrics.
- Created dashboards that let Customer Support proactively fix broken archive jobs.
- Tech summary: Java 8, JSP, SQL, Berkeley DB Java Edition, and MySQL.

## **Lead Web Engineer, X Plus Z** (Permanent, 2013/12 – 2015/07)

Team Lead for off-shore X Plus Z employees in China. We were contracted to Electronic Arts and developed web portals for titles such as Dragon Age: Inquisition, FIFA World, and The Sims.

- Full-stack development including analysis, development, code reviews, and merges.
- Provided first-line support for Production sites, including fixes for Critical bugs.
- Created and supported Docker containers / Vagrant images for developers and QA.
- Collaborated with Product Owners to write Stories, provide estimates, and prioritize backlogs.
- Tech summary: AngularJS, Grails, Java, PHP + Symphony, and MySQL.

## **Java Developer, Travel Underwriters** (Contract, 2012/10 – 2013/05)

Worked on Travel Underwriters' hosted web app, *Venture*, which allows Customer Service Representatives and external Partners to sell travel insurance nationwide.

- Designed and implemented a scalable search solution for Venture by embedding Lucene Search.
- Designed and implemented an Alfresco CMS integration component for Venture. The Business Users could then query for Insurance Policies and manage their lifecycles.
- Tech summary: Java, JEE, Lucene Search, Alfresco CMS, JSF, Seam, Jboss, and Hibernate.

## **Software Engineer, Elastic Path** (Permanent, 2010/10 – 2012/06)

Worked on *Elastic Path Commerce* ("EPC"), a highly customizable e-commerce application.

- Added support for recurring billing products (eg, \$10/month) to EPC. New product attributes were added, the pricing engine was changed, and the frontend was updated.
- Updated EPC's inventory subsystem to journal quantity changes instead of doing in-place edits. Rolling-up the true quantities at runtime was more scalable under heavy load than locking tables.
- Tech summary: Java, Spring, JSP, REST, SOAP, OpenJPA, Liquibase, and MySQL.

## **Software Engineer, SAP BusinessObjects** (Contract, 2007/10 – 2010/09)

Worked on *Multi-dimensional Analytics Server* ("MDAS"), a middle-tier application that supports pluggable OLAP Servers and exports functionality over HTTP and CORBA.

- Added first-class support to MDAS for SAP's Business Warehouse OLAP Server. This major project took several years and involved dozens of people.
- Worked daily with remote teams in France and Germany to incorporate components into MDAS.
- As Build Master, maintained Cruise Control for MDAS.
- Tech summary: Java, CORBA, Spring, Junit, Mockito, and Perforce.

## **EDUCATION**

- Bachelor of Science, Double Major in Computer Science and English, University of Victoria. Graduated in 2000 with Distinction.
- Two years of Co-op experience at four different companies.
- Studying for the AWS Cloud Practitioner Certification.
- Studying for the DELE Certification (Spanish Level A1 Diploma).

## **COMMUNITY**

- Open-source projects and more at <https://ggabelmann.github.io/>.