

# ZHENSHAN GAO



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## SENIOR SOFTWARE ENGINEER

### APPLICATION SERVICE DESIGN ♦ PERFORMANCE TUNING ♦ PRODUCTION SUPPORT

Results-focused and accomplished IT Professional and Senior Software Engineer with a wealth of experience in developing high performance, highly reliable, and scalable web applications on a SaaS platform. Possessing a Master's degree in Computer Science. Skilled in building enterprise web application/services, highly scalable, reliable, and maintainable. Proven track record of completing complex projects on time with superior quality and reliability. Equipped with a rich mixture of analytical and strategic skills that successfully impact operations. Exhibits professionalism, accuracy, attention to detail, and a dedicated work ethic. Demonstrated success in surpassing productivity and performance metrics.

#### PROFESSIONAL EXPERIENCE

**Enterprise-Level Applications | Java | Spring Framework | Hibernate | Oracle | SNS | SQS | Redis | Kubernetes  
RabbitMQ | PHP | MySQL | C#.NET | AWS | CICD Tools | Software Development**

#### ACCOMPLISHMENTS

- ✓ Redesigned the feature, payment account history from a legacy application, transitioning from DB triggers to API implementation and made it accessible to all integrating clients and data analysis and allowing for data analysis and risk checking relying on the history data, which was not accessible to them before.
- ✓ Designed and implemented a self-assistant migration platform, to allow teams to prepare the migration data, upload to the AWS S3 bucket, and trigger the migration process. Without the migration platform, the team had to manually process 5-10 migration requests each week, involving a lot of communication across teams and manual work.
- ✓ Transitioned the lead history checking logic from business layer to DB layer, saving multiple round trips between the database and the application and improved the query performance and guaranteed timely response to the campaign engine, performance improved 120% by moving the logic to DB level for lead activity history.
- ✓ Created a separate data loading service, which returns paginated data based on user's searching criteria, instead of loading all possible data to the page, thousands of records, leading to saving significant time.

#### PROFESSIONAL EXPERIENCE

**Sr. Software Engineer | Intuit | Mountain View, CA 2016-Present**

- Devised and implemented Account Service, Validation Service, and Wallet Cash Service on Payments platform serving many-core Intuit products
- Led the migration of services from Intuit datacenter to AWS with Kubernetes
- Conducted troubleshooting and fixed existing bugs in products and provided production support

**Tools: Java, Spring framework, Hibernate, Oracle, JMS, SNS, SQS, S3, Redis, Kubernetes**

**Staff Software Engineer | Marketo | San Mateo, CA 2015-2016**

- Created and implemented backend of Lead Management platform for Mobile In-App Messaging project
- Launched the mobile notification push service for iOS platform using Pushy library

**Tools: Java, MySQL, RabbitMQ, Pushy, PHP, Symfony**

**Senior Software Engineer | Marketo | San Mateo, CA 2012-2015**

- Designed and implemented the runtime of Customer Engagement Engine processing millions of activities in seconds
- Implemented and maintained Marketo Webinar project integrating with a wide variety of webinar providers, including WebEx, GoToWebinar, Adobe Connect, ON24, and ReadyTalk
- Oversaw the implementation of the backend of Lead Management platform for Mobile Push Notification project

**Tools: Java, MySQL, PHP, Symfony, ExtJS**

**Lead Software Engineer | Active Network | Burnaby, British Columbia 2009-2012**

- Generated and developed enterprise-level web services to support the company's various products
- Implemented new features for online registration and participant management and assisted in requirement analysis

**Tools: Java, Spring, Hibernate, SQL Server, C#.NET, ASP.NET, JQuery, XSLT, CSS, JavaScript**

**Software Engineer | Active Network | Burnaby, British Columbia 2007-2009**

- Developed new features for Online Registration service
- Optimized stored procedures for core business logic and improved performance by 50% to 80%
- Created new features for Agency Management System and provided production support for each major release

**Tools: VB.NET, ASP.NET, Adobe Flex, XHTML, XSLT, CSS, JS, jQuery SQL Server**

#### EDUCATION & CERTIFICATIONS

**Master's Degree in Computer Science | Simon Fraser University, Canada**

**Bachelor Degree in Computer Engineering | Jilin University, China**

**Sun Certified Java Programmer (SCJP) | Microsoft Certified Professional Developer (MCPD)**