

# ALEX BOHLINGER

Senior software engineer

Elk Mound, WI

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## SUMMARY

- Strong knowledge of **Object-Oriented Programming** concepts
- Highly skilled in **enterprise solutions development**
- Proficient in **Java technologies** such as **Spring MVC, Spring boot, Hibernate/JPA, JAX-WS**
- Experience using: **Python/Django PHP (Laravel & Zend) Java-script (Vue-JS, React-JS, Angular)**
- Experience developing and consuming **REST** and **SOAP APIs**
- Experience working with **MSSQL, MySQL, MongoDB, Redis Cache**
- Experience developing **android applications** with **Java**
- Cloud Technologies worked with include **Azure DevOps, AKS, Azure, AWS, EKS, Digital-Ocean (CentOS and Debian)**
- Tenacity for solving **difficult problems**
- **Software testing** and **version control**
- Excellent oral and written **communication** skills
- Efficient in **managing an agile group** of developers
- Great report **writing** and **documentation** skills
- Supportive **Team lead**

## SKILLS

Java, Kotlin, Android, OOP, JAX-WS, Spring MVC, Spring Boot, Hibernate, XML, Python/Django, C++, C, Visual C#, PHP (Laravel, Zend), JavaScript, Vue.js, React.js, Angular, SOAP APIs, MongoDB, Redis, MySQL, Microsoft SQL Server, Data Modeling, SQL, Microsoft Office, Microsoft Excel, Project Management, Docker, RESTful APIs, Java Web Services, Azure, Azure DevOps, AKS, AWS, EKS, Agile, CI/CD

## EDUCATION

Bachelor's degree in computer science from the University of Wisconsin-Stout in 2010

## WORK EXPERIENCE

### Senior Software Engineer at Facebook

Middleton, WI | Nov 2018 – Apr 2023

- Developed and implemented **MS Services architecture** for **financial applications**, ensuring **scalability, performance, and security**.

- Designed and implemented **microservices** using **Spring Boot** and **Java** for seamless **integration** with other applications.
- Conducted **code reviews** and provided **technical guidance** to the development team to ensure **adherence** to coding **standards** and **best practices**.
- Designed and implemented **Azure Service Bus** and **Event Grid** for **efficient communication** between **microservices**.
- Integrated **MS Services** with various data sources such as **databases**, **APIs**, and **message queues**.
- Designed and implemented **ETL processes** to **extract data** from **various sources**, transform it as per **business requirements**, and load it into **data warehouses**.
- Developed **ETL workflows** using tools such as **SSIS**, **Informatica**, and **Talend** to **automate data integration processes**.
- Conducted data **profiling**, **data mapping**, and **data quality checks** to ensure **data accuracy** and **consistency**.
- Optimized **ETL performance** by tuning **SQL queries** and implementing **parallel processing**.
- Designed and implemented **error handling** and **recovery mechanisms** to ensure **data integrity** and **reliability**.
- Designed and developed **data models** using **ER modeling techniques** to represent **business entities** and **their relationships**.
- Normalized and denormalized **data models** as per **business requirements** to optimize **query performance**.
- Conducted **data modeling sessions** with **business analysts**, **developers**, and **stakeholders** to elicit and validate requirements.
- Created **data dictionaries** and **documentation** to ensure **consistency** and **clarity** in **data definitions**.
- Worked with **database administrators** to implement **physical data models** in **various database management systems** such as **SQL Server**, **Oracle**, and **MySQL**.
- Successfully **managed a team of engineers** responsible for building solutions that integrate with various **banks in US** for card and **account-based transactions**.
- Led the engineering of various **product initiatives**, including **direct card** and **account debit (recurring)**, **multi-provider switch service** for **transaction processing** with automated routing for **high availability**, **interbank transfer service**, **automatic settlement service (hourly and daily cycles)**, **dispute management system** with automatic **dispute** and **reversal**, and **back-office portal** for management of services.
- Achieved **higher customer satisfaction** with the implementation of **automated reversal** of failed **POS transactions**, resulting in a significant decrease in **customer complaints** and **improved customer retention**.
- Improved the **transaction success rate** during a major downgrade with **bank services** that lasted **3 months**, leading to a **50% increase in adoption** and **100% increase in transaction** count per day.
- Implemented a **multi-factor authentication system** for **secure account access**, which significantly reduced the risk of **fraudulent activity** and improved **overall system security**.
- Developed a **real-time monitoring system** that allows for the **quick identification** and **resolution of system issues**, **reducing downtime** and **improving system reliability**.
- **Designed and implemented a disaster recovery plan** that ensures **system availability** in the event of a **catastrophic event**, which greatly improved the **overall resiliency** of the system.
- Proficient in various **programming languages**, including **Java**, **Kotlin**, **Python**, and **C++**, as well as experience with various **software development frameworks**, including **Spring** and **Hibernate**.
- Experienced in working with **various databases**, including **MySQL**, **Oracle**, and **MongoDB**, and experienced in designing and optimizing **database schemas** for **high-performance applications**.

- Skilled in various **software development methodologies**, including **Agile** and **Waterfall**, and experienced in leading **cross-functional teams** through the entire **software development lifecycle**.
- Knowledgeable in various **cloud technologies**, including **AWS** and **Google Cloud Platform**, and experienced in **designing** and **deploying** highly available and scalable applications in the cloud.
- Led the **development** and **deployment** of several **VAS solutions**, including the **NIN Update solutions**, **Data bundle bonus offers**, **Google RCS solution**, and other **VAS services**.
- Collaborated with **cross-functional teams** to ensure **seamless integration** and **delivery** of **VAS solutions**.
- Conducted **technical feasibility studies** and provided **technical guidance** to support **product development**.
- Developed and implemented **best practices** for **VAS solution delivery**, resulting in **increased efficiency** and **quality**.
- **Mentored** and **trained** junior developers to enhance their **technical skills** and improve their **performance**.

### Software Engineer at Capgemini

Houston, TX | Oct 2016 – Oct 2018

- **Led the mobile engineering team** to integrate **third-party products** and grow the **bank's income** via digital channels
- Migrated **cloud services** to **Azure Kubernetes Service**, resulting in **improved service uptime** of **99%**
- Setup **Continuous Integration** and **Development** using **Azure DevOps**, resulting in faster and more efficient development cycles
- Reduced **fraudulent login** and **transactions** by **85%** via the implementation of **device**, **limit**, and **two-factor setups**
- **Re-architected core services** of the **bank's mobile app** for improved speed and efficiency
- Played a key role in the **design** and **management** of the new mobile app product
- Continuously **developed new features** and **improved existing features** on the New **Mobile**, working with an **agile team**
- Developed and managed the **digital banking solution** powering the **mobile application** using **Java Spring Boot**.
- Successfully integrated the **digital banking solution** with the **core banking application** for services like **account debit**, **credit**, and **statement management**.
- Integrated **third-party applications** for **value-added services** including **money transfer** (local and FX), **airtime** and **data top-up**, **device management**, **credential management** (including **fingerprint** and **card management**), **account management**, **bill payment**, **dispute log**, **movie** and **event purchase**, **loans**, **QR payments**, and more.
- Consolidated both retail and business users onto a **single platform** with **dual login capabilities**, ensuring **seamless user experience**.
- Trained and mentored various teams including **Customer Support**, **IT Infrastructure**, **Database Team**, and **Fraud Team** on the **effective management** of users on the platform.
- Acted as the **main point of contact** for fixing **complex issues** beyond the capabilities of the various teams.
- Revamped the **Get-Jama android application** by implementing **Java** for survey answering and cash redemption.
- Migrated from **GCM** to **FCM** for **cloud messaging** in the version two of the application.

- Designed and developed an **android-based application** using **Java** for **seamless collection** of **event reviews** from attendees.
- Integrated **location services** to improve **data validation** and **accuracy**.
- Built a **web application version** of the same using **JavaScript** to enhance **accessibility** and **user experience**.

### Backend Developer at Kroger

**Dallas, TX | Sep 2014 – Oct 2016**

- Debugged and modified the **legacy software core** of the **Get-Jama data collection service** using **PHP Zend Framework, MySQL, MongoDB, and NodeJS**.
- Revamped the **Get-Jama website** to improve **user experience** and **increase engagement**.
- Developed a **comprehensive reporting system** for the **Domestic & Sexual Violence Response Team agency**.
- Integrated an **automatic SMS notification system** into the **reporting system** to alert **relevant agencies**, such as the **police** and **health agencies**, nearest to the location of the incident for swift response.
- Developed a **robust incidence management** portal for the **team** to manage **reported incidences** from the above **channels**, as well as **walk-in reports**.
- Enhanced the **management portal** to generate **valuable data insights** about trends in **domestic violence** in the state.
- **Architected** and **built** a **subscription system** using **short-codes** for users to **subscribe** to **daily SMS** content.
- Developed a **billing system** that enables charging of users either weekly or daily using **multiple payment gateways**.
- Engineered a **content delivery system** for the subscribed product that uses a **queue-based message delivery service** for high throughput and low latency.
- Designed and implemented **load balancing** and **auto-scaling** for the system, which resulted in a **20% increase** in **system performance** and **stability**.
- Optimized the system to **handle over 1 million subscribers** while ensuring high system uptime and availability.
- Conducted **end-to-end testing** and integration of the system with various **telecommunication networks**, which improved **service delivery** and **reduced downtime**.

### Backend Developer at CoreLogic

**Los Angeles, CA | Aug 2010 – July 2014**

- Developed and implemented a **subscription system** enabling users to **subscribe** to **daily SMS content** via **short-code**.
- Designed and executed a **billing system** to charge users either weekly or daily for **subscribed content**.
- Created a **content delivery system** to effectively **deliver SMS content** to users subscribed to the product.
- Built a **trivia service** allowing users to participate in **lotto campaigns** and answer **trivia questions** via **SMS short-code**.

- Developed a **lotto system** to run **lotto campaigns** and **determine winners** at the end of each campaign.
- Designed and implemented an **authentication system** enabling companies to generate and add **authentication codes** to their products for users to **verify product authenticity** via **SMS short-code**.
- Created a **survey system** for users to **complete short surveys** and earn money redeemable as airtime via **SMS**.
- Acted as a **systems administrator** in the **e-library**, installing **OS** and **applications** for new batches of computers, and **managing** the **library software KOHA** and its servers.
- Collaborated with the **Production Instrumentation Department**, ensuring compliance with **health** and **safety rules** in the daily operations at the **gas plant**, while working with various **programmable logic controllers**.