Dong Kun "Alex" Lee

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*Senior Software Engineer with 6+ years of experience building and maintaining highly scalable microservices using **Java**, **Spring Boot**, and **AWS**. Proven ability to design, develop, and implement complex systems. Strong communication skills honed through experience working directly with clients, product and engineering teams.*

PROFESSIONAL EXPERIENCE

SERVERLESS GURU
Senior Software Engineer   *January 2021-January 2024*

- Spearheaded backend development efforts utilizing **Java 8** and **Spring Boot** to build scalable and efficient microservices architecture on **AWS.**
- Integrated **AWS services** (**EC2, Lambda, API Gateway, SNS, SQS, S3**) with **Spring Boot** applications ensuring optimized performance in an event-driven environment.
- Designed and implemented **RESTful APIs** using **Spring MVC**, focusing on modular resource endpoints, API versioning, and fault tolerance for enhanced client interaction.
- **Spring Data JPA** for streamlined data access. Optimized **PostgreSQL** and **MySQL** queries and designed efficient database schemas to support high-traffic servers, ensuring fast data retrieval and reducing query latency.
- Integrated **Spring Security** for robust authentication and authorization, implementing **OAuth 2.0**, **JWT**, and custom access control mechanisms for various microservices.
- Migrated critical legacy services to modern **Spring Boot microservices**, enhancing performance and maintainability across the codebase.
- Integrated monitoring and logging solutions using **Amazon CloudWatch**, and **Splunk** to enhance application observability and reduce incident response times.
- Emphasized **Test-Driven Development (TDD)** practices, employing **JUnit**, **Mockito**, and **Gatling** to ensure code quality and performance standards in production.
- Utilized **CI/CD** pipelines on **Jenkins** to automate application deployment, testing, and delivery for faster releases.
- Authored detailed technical documentation and API specifications for microservices, improving team collaboration and onboarding.

NIKE, INC   **Beaverton, OR**
Senior Software Engineer   *August 2019–January 2021*

- Developed, launched and maintained **REST API** microservices for **Nike's Global E-commerce** ecosystem using **Java 8**, **Spring Boot** and **AWS**.
- Leveraged **Spring JPA** and **Hibernate** for efficient data persistence and retrieval in a variety of RDBMS environments, including **MySQL** and **Postgres**.
- Implemented **Spring Data** for simplifying data access layers and **Spring Security** for robust authentication and authorization mechanisms.
- Utilized **Spring MVC** to handle incoming requests and responses, ensuring seamless integration within the e-commerce ecosystem.
- Developed, provisioned and maintained infrastructure on **AWS (EC2, S3, RDS, API Gateway, SQS, SNS)**.

- Actively utilized **Splunk** for comprehensive debugging and streamlined testing of new features on production systems.
- Fully adopted **DevOps** practice; development, test automations and deployments using **CI/CD pipeline** on **Jenkins**.
- Integrated observability and monitoring solutions using **New Relic** and **SignalFX**.
- Developed graceful degradation, disaster recovery and multi-AZ/multi-region failovers on **AWS**.
- Managed and provisioned **AWS EC2** instances based on traffic demands using **AWS Auto-Scaling**.
- **Test-Driven Development (TDD)**; Unit test (**JUnit**), mock test (**Mockito**), code coverage (**Jacoco**), performance test (**Gatling**).
- Authored documentations on **Confluence** for new microservices using Unified Modeling Diagrams (UML) such as requirement analysis, High-Level Design (HLD), and sequence diagrams.
- PagerDuty support for incident responses for **Nike's Inventory REST API** ecosystem.

BEAVERTON TOYOTA   **Beaverton, OR**
Software Engineer   *August 2017-August 2019*

- Single-handedly designed and developed **REST API** microservices using **Java**, **Spring Boot** and **MongoDB**.
- Provisioned and administered **Linux** servers for all development environments.
- Digitized 30+ physical contracts to pre-filled e-contracts using **Apache PDFBox**.
- Migrated 500,000 service repair orders from Excel to **MongoDB** and served data to the dashboard.
- Used **SOAP protocol** to fetch manufacturer's data from Toyota API Portal.
- Implemented push notification system across all dealership departments using **Twilio API** and **AWS SES**.
- Fully migrated on-premise microservices to **AWS** cloud-native using **AWS Elastic Beanstalk** and **MongoDB Atlas**.

EDUCATION

UNIVERSITY OF OREGON   **Eugene, OR**
Bachelor of Science in Computer Science   *December 2016*

ADDITIONAL SKILLS

- **Languages**: Java 8, J2EE, Javascript, SQL, NoSQL, JSON, XML
- **Frameworks**: Spring Boot, Spring JPA, Hibernate, JDBC, Spring Data, Spring Security
- **Tools**: Git, Github, Bitbucket, Linux, Docker, AWS, Jenkins, Gradle, Maven, CI/CD, JWT, New Relic, SignalFX, Splunk, Jira, Confluence, IntelliJ IDEA, Swagger, Postman