

DAVID LIU

SOFTWARE ENGINEER 📍 LOS ANGELES ☎ 5624008543

◦ DETAILS ◦

Los Angeles
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◦ LINKS ◦

www.linkedin.com/in/DavidLiu023

◦ SKILLS ◦

Python
Java
JavaScript
Spring Boot
Hibernate
MySQL
MongoDB
Git
Docker
Microservices
AWS
Azure

👤 PROFILE

- 10 years of professional experience in **Requirements Analysis, Design, Development and Implementation** of **Java**, J2EE and client-server technologies.
- Involved in Preparing the **Design Documents** and **analyzing the functional specifications**.
- Involved all phases of **Software Development Life Cycle (SDLC)** in large scale enterprise software using Object Oriented Analysis and Design.
- Proficient in using J2EE Frameworks: **Spring, Hibernate** and **Web Services** Technologies.
- Developed and maintained web applications using Java and **Apache Struts 2** framework.
- Experience with spring and Spring Modules: **Spring IOC/Spring DI, Spring AOP, Spring MVC, Spring JDBC, Spring Hibernate, Spring Data**, and **Spring REST** Technologies.
- Configured spring applications using different modules like **Spring Boot** and **Microservices**.
- Good Experience in Server-side Framework like **Node.js** and **Java script** libraries like **React**
- Built end to end CI/CD Pipelines in **Jenkins** to retrieve code, compile applications, perform tests and push build.
- Developed resources using **spring** with REST and Consumed resources using REST Template.
- Experience with various programming languages like **Java Script, HTML5, CSS3, and Bootstrap**.
- Involves in database servers such as **Oracle, SQL Server, MySQL, Mongo-DB** and writing and tuning **SQL** and **PL/SQL**. Queries.
- Implemented **spring boot** micro services to process the messages into the **Kafka** cluster setup.
- Worked with Development and QA teams to continuously integrate software development using **GitHub** and **Maven**
- Experience with Java 8 features like **Lambda** Expressions, **Java Stream API** and **Concurrent** Accumulators.
- Knowledge of monitoring, logging and cost management tools that integrate with **AWS**
- Have good experience in managing project files by using **version control tools** like **SVN** and **Git**.

📁 EMPLOYMENT HISTORY

Backend Engineer at Walmart

July 2022 — September 2024

Description:Orbit is designed to capture events across the Walmart system, process them, and store them for business intelligence and analysis purposes. By collecting and analyzing data from various sources, including point-of-sale systems, online purchases, and social media interactions, Orbit can help Walmart understand customer behavior, market trends, and areas for improvement in customer service. This, in turn, can help Walmart make more informed business decisions and better serve its customers.

Roles & Responsibilities:

- Develop and maintain Walmart's e-commerce platform back-end services using Java and Spring Framework
- Implement monitoring, logging, and alerting solutions to ensure system stability and availability

- Designed and deployed Elasticsearch cluster for efficient search and indexing of large datasets
- Developed Restful APIS using Spring Boot to access the system's data
- Implemented load balancing and auto-scaling using Kubernetes (WCNP)
- Implemented messaging systems using Kafka to facilitate real-time data processing and communication between services
- Utilized SQL Server to store and manage data for reporting and analytics purposes
- Collaborated with cross-functional teams to define, design, and deliver new features

Full Stack Engineer at Chargerx LLC, East Los Angeles

November 2021 — July 2022

Description: Dynamic and innovative Full Stack Engineer with expertise in developing scalable, secure, and user-centric online applications. Proficient in leveraging React and Spring Boot to create the cutting-edge powerbank rental application, Rent Now, ensuring robust security with Spring Security and efficient user notifications via AWS messaging components. Specializes in developing responsive, mobile-friendly solutions that address critical needs, such as preventing phone battery depletion. Demonstrated excellence in deploying applications on AWS to achieve auto-scaling and load balancing, optimizing resource use based on user demand.

Roles & Responsibilities:

- Expertise in **React** for front-end development and **Spring Boot** for back-end services, creating comprehensive full-stack solutions.
- Specialized in developing **responsive and mobile-friendly** user interfaces that enhance user experience and accessibility on various devices.
- Proven ability to deploy and manage applications on **AWS**, leveraging services for **auto-scaling** and **Elastic Load Balancing** to adapt to user demand dynamically.
- Knowledgeable in security best practices, compliance standards, and secure cloud architecture principles. Experienced in deploying multi-factor authentication, encryption, and secure access policies.
- Deep understanding of AWS services, including but not limited to **AWS Lambda**, **S3**, **DynamoDB**, **CloudWatch**, and **AWS API Gateway**, with a focus on security and scalability.

Java Software Engineer at California Resources Corporation, Long Beach

November 2016 — November 2021

Description: General well is interior program for operation team ,petroleum engineer ,accounting and planning team.It managed 5000 wells and thousands of auto meters in south LA area. It calculates daily oil and downtime for work kpi.it helps engineers to manage subsurface production and injection .also general monthly report and yearly report to california CalGEM and IRS.

Roles & Responsibilities:

- Understanding the Domain Knowledge for the Product, Requirements and Design Documents gathering.
- Involved in functional requirement discussions with the business team and converted the functional requirements to technical requirements.
- Used MySQL database on Amazon RDS to store position data fetched from CalGEM API.
- Designed algorithms (e.g., content-based recommendation) to implement CalGEM resources
- Developed UI using **HTML**, **HTML 5**, **CSS3**, **AJAX**, **Java Script**, and **JSP** and developed Business Logic and Interfacing components using **POJO**, **XML**, and **JDBC**.
- Developed the application using **Spring MVC** and **Spring Boot**. Used a complete annotation approach for the application development and leverage **Spring** profiling development.
- Developed DAO classes using **Hibernate** Template from **Spring** with **JPA**.
- Consumed **RESTful Web** Services using **JAX-RS** API and Web Services Annotations.

- Deployed the dashboard to Amazon Web Service for demonstration.
- Built end to end CI/CD Pipelines in **Jenkins** to retrieve code, compile applications, perform tests and push build.
- It was an integral part of the Scrum process, **JSON** and Agile (TDD) methodology.
- Involved in the development of the UI using **HTML5, Bootstrap, CSS3, JavaScript, jQuery**.
- Involved in designing the Schemas in **Oracle** and used **Hibernate ORM** framework for mapping entities with POJO classes.
- Involved in unit testing of various layers using **JUNIT**.

Application DBA at Sabre Corporation, Southlake TX

May 2014 — August 2016

- Designed and normalized the databases, have written T-SQL Queries and created different objects like Tables, Views, Stored Procedures, User defined functions, Indexes.
- Created and maintained star schema following the best design practices in the business and financial area to assure the effectiveness and consistency of the design.
- Designed and deployed various different professional reports with SSRS tools, utilizing Dynamic and Cascading Prompts, sub-reports, charts, parameterized reports, conditional and dynamic reports. Set up Advanced functions, dashboard, Drill-Trough/Drill-Down, KPI/Indicators in reports.



EDUCATION



Master of Management, University of St. Andrews, St Andrews , UK

June 2008 — November 2009



CERTIFICATION



AWS Certified Solutions Architect – Professional

March 2024 — March 2027