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# Daniel Moreira

## Senior Software Engineer | Full-Stack Developer | AI Engineer

### SUMMARY

Software engineer with a robust background in full-stack development and proven expertise in Java and Python. Demonstrated success in architecting and implementing high-transaction APIs with low latency in Java/Spring Boot, and optimizing ETL pipelines using Python/Airflow. Experience includes substantial cost reductions and performance enhancements in cloud environments, AI-driven application development, and leading large-scale software migrations and modernization projects. Holds a master's degree in Computer Science and possesses advanced certifications from prominent institutions, encompassing Java, AWS, and Docker, accompanied by a strong foundation in Agile methodologies.

### SKILLS

<b>Main Technical Skills</b>	Java, Python, JavaScript, TypeScript, SQL
<b>Programming Languages</b>	Java, JavaScript, Python, TypeScript, VBA
<b>AI &amp; Machine Learning</b>	Spacy
<b>JavaScript Frameworks</b>	Angular
<b>Python Frameworks</b>	Django REST framework
<b>Java Frameworks</b>	Hibernate, Spring Boot
<b>.NET Platform</b>	VBA
<b>Data Analysis and Visualization Technologies</b>	Celonis, Data Analysis, Data visualization
<b>Databases &amp; Management Systems / ORM</b>	Data Lake, Hibernate, SQL
<b>Azure Cloud Services</b>	Azure DevOps, Azure VM
<b>Google Cloud Platform</b>	GCE
<b>Methodologies, Paradigms and Patterns</b>	Agile, Clean Architecture, microservices

<b>SDK / API and Integrations</b>	API
<b>Virtualization, Containers and Orchestration</b>	GCE
<b>Platforms</b>	Microsoft Power Platform
<b>QA, Test Automation, Security</b>	QA Automation
<b>Other Technical Skills</b>	Unreal Engine

## WORK EXPERIENCE

### Senior Full-Stack Developer, Java/Spring Boot API Development and ETL Pipeline Optimization

**Duration:** 2021 - 2024

**Summary:** Led the optimization of ETL pipelines to reduce runtime significantly.

**Responsibilities:** Architected Java/Spring Boot APIs, optimized Python/Airflow ETL pipelines, improved AWS Lambda cost efficiency, developed real-time fraud detection dashboard.

**Technologies:** Java, Python, Spring Boot, React, Redux, AWS Lambda, JUnit, Terraform

### Python/Java Tech Lead, PHP to Java Migration and AI Recommendation Engine Development

**Duration:** 2017 - 2021

**Summary:** Managed a team during the complete migration from PHP to Java and built an AI-powered recommendation engine.

**Responsibilities:** Led PHP to Java migration, created Python-based AI recommendation engine, integrated security features into Angular admin portal.

**Technologies:** Java, Python, Spring Boot, Angular, OAuth2, JWT

### Web Development Specialist, Patient Portal Scaling and Java Module Integration

**Duration:** 2012 - 2017

**Summary:** Scaled a Django-based application to a larger user base and integrated a Java module to improve data accuracy.

**Responsibilities:** Scaled patient portal, integrated HL7/FHIR Java module, optimized frontend performance.

**Technologies:** Django, Java, Redis, JavaScript, CSS3

### Senior Software Engineer, Inventory Management System

**Summary:** Developed an inventory management system with efficient backend and user-friendly dashboard.

**Responsibilities:** Created backend with Spring Boot, crafted frontend dashboard with Material-UI including real-time stock alerts.

**Technologies:** Java, Spring Boot, JPA/Hibernate, React, Material-UI



## **AI Engineer, AI Chatbot Platform**

**Summary:** Implemented an AI chatbot platform that enhanced conversation handling and reduced customer service tickets significantly.

**Responsibilities:** Built NLP engine with spaCy & BERT, handled multi-channel integration with WhatsApp Business API.

**Technologies:** Python, Django, spaCy, BERT, WhatsApp Business API

## **EDUCATION**

- **MSc in Computer Science**  
Nanyang Technological University  
2010 - 2012

## **CERTIFICATION**

- **Oracle Certified Java SE 11 Developer**  
2023
- **AWS Certified Developer**  
2024
- **Docker Certified Associate**  
2024
- **Scrum Master (PSM 1)**