

# Harvad (Hongzhi) Li

## *Java Backend Engineer*

hongzhili01@gmail.com — 0728384299 — LinkedIn — GitHub

### Profile Summary

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Java backend engineer with 5+ years building enterprise applications and microservices. Strong expertise in Spring Boot, Spring Framework, and RESTful APIs. Unique combination of IT technical skills and business/finance education (Master's in International Business and Trade). Experienced analyzing customer requirements, translating business needs into technical solutions, and maintaining complex systems. Proven ability with financial systems, databases (SQL), and automated testing. Passionate about critical thinking, problem-solving, and understanding business domains like accounting.

### Core Technical Skills

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- **Java Ecosystem:** Java 8/11/17, Spring Boot, Spring Framework, Spring MVC, Spring Data JPA, JBoss
- **Backend:** RESTful APIs, microservices, JMS messaging, asynchronous processing
- **Databases:** SQL (PostgreSQL, MySQL), query optimization, ORM (Hibernate, JPA)
- **Build & Deploy:** Maven, Gradle, GitHub CI/CD, Jenkins, automated pipelines
- **Containerization:** Docker, Kubernetes, cloud-native applications
- **Testing:** JUnit, Mockito, integration testing, automated test setup, TDD
- **Frontend:** React integration, API consumption, full-stack coordination
- **Mobile:** Kotlin, Android development (hobby projects demonstrating programming versatility)
- **Problem Solving:** Analytical thinking, critical thinking, complex problem solving
- **Business:** Financial systems, accounting concepts, business process analysis
- **Languages:** Fluent English and Mandarin, Swedish B2

### Working Experience

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#### ECARX — Senior Infrastructure & Performance Engineering Specialist

*October 2024 - Present — Gothenburg, Sweden*

- Contributed to the stability and performance of eWorks' accounting system by proactively identifying and resolving infrastructure bottlenecks through meticulous log analysis and performance monitoring.
- Leveraged analytical skills to diagnose and troubleshoot complex issues within the accounting system, proposing and implementing effective solutions to minimize downtime and ensure data integrity.
- Maintained and optimized DB2 database performance by writing and tuning SQL queries, ensuring efficient data retrieval and storage for critical financial transactions.
- Developed and maintained automated testing suites (unit, integration, and end-to-end) using Java and relevant testing frameworks to guarantee the reliability and accuracy of accounting system functionalities.
- Collaborated with international teams to understand diverse user requirements and implement localized solutions within the accounting system, demonstrating strong communication and cross-cultural collaboration skills.
- Actively participated in solution discussions with cross-functional teams (including finance and product) to define technical specifications and ensure alignment with business objectives for new accounting system features and enhancements.

- Designed and implemented automated alerts and monitoring solutions to proactively detect anomalies and potential issues within the accounting system infrastructure, enabling timely intervention and preventing disruptions to financial operations.
- Utilized critical thinking and problem-solving skills to analyze complex financial processes and translate them into robust and scalable Java-based solutions within the eWorks accounting system.

## **Synteda — Full Stack Developer (Freelance)**

*August 2023 - September 2024 — Gothenburg, Sweden*

- Spearheaded the integration of a full Microsoft solution for Mibo.se, leveraging C#.NET for the backend, a React-based frontend, and Azure cloud hosting to create a robust and scalable platform.
- Collaborated closely with the Mibo.se team to translate their talent management business requirements into a comprehensive technical architecture, ensuring the platform effectively addressed their needs.
- Developed key features for Mibo.se's talent management platform, bridging the gap between business objectives and technical implementation to deliver a user-friendly and efficient solution.
- Independently developed native Android applications using Kotlin to extend Mibo.se's talent management capabilities to mobile devices, complementing the core Microsoft-based platform.

## **IT-Högskolan — Backend Support (Part-time)**

*January 2023 - May 2023 — Gothenburg, Sweden*

- Supported Spring Boot backend development and API integration
- Worked with SQL databases and automated testing

## **Senior Material — Backend Architect**

*January 2022 - December 2022 — Eskilstuna, Sweden*

- Led microservices migration using Spring Boot and Java
- Designed RESTful APIs for business-critical applications
- Worked with SQL databases and implemented automated testing

## **Projects (Java & Kotlin)**

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### **SmrtMart E-commerce Backend**

#### **Go, PostgreSQL, Microservices, RESTful APIs**

- Built backend handling orders, inventory, payments (financial flows)
- Designed database schema for transactions and accounting data

### **Weather Platform Backend**

#### **Spring Boot, MySQL, RESTful APIs, Cloud**

- Developed Spring Boot backend with MySQL database
- Demo: <https://weather.bluehawana.com>

### **TaxiPooling Backend**

#### **Spring Boot, PostgreSQL, Microservices**

- Built Spring Boot microservices with PostgreSQL
- Analyzed ride-sharing financial flows and payment processing

## AndroidAuto AI Bot (Kotlin)

Kotlin, Android, RESTful APIs, Real-time

- Built with Kotlin demonstrating strong programming skills
- Designed RESTful APIs for backend integration

## AndroidAuto CarTVPlayer (Kotlin)

Kotlin, Android SDK, APIs

- Native Kotlin application with backend API integration

## Crypto Wallet (Xamarin/C#)

C#, .NET, Blockchain APIs

- C# backend with financial transaction processing

## Education

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**IT Höskolan** — Bachelor's in .NET Cloud Development — 2021-2023

*Focus: Backend development, cloud architecture, microservices, databases*

**Mölnadal Campus** — Bachelor's in Java Integration — 2019-2021

*Focus: Java, Spring Framework, enterprise integration, SQL databases*

**University of Gothenburg** — Master's in International Business & Trade — 2016-2019

*Focus: Business analysis, financial systems, international commerce, accounting principles*

## Why I'm a Great Fit

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**Finance + IT Background:** Unique combination of Master's in Business/Finance and Bachelor's in Java/IT. I understand both the technical implementation and the business/accounting domain.

**Maintenance Mindset:** Experienced maintaining and improving existing systems, not just green-field development.

**Testing Advocate:** Strong believer in automated testing (JUnit, Mockito) and quality assurance.

**Analytical Thinker:** Proven ability to analyze complex problems, understand customer needs, and propose effective solutions.

**Versatile Programmer:** While Java is my primary backend language, my Kotlin projects demonstrate programming versatility and quick learning ability.

## Certifications

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AWS Certified Solutions Architect (2022) — AWS Certified Developer (2022) — Azure Fundamentals (2022)