

# BASSAM ALHARBI

Experienced software engineer with a passion for developing innovative software that accelerates the efficiency and effectiveness of organizational success. Well versed in technology and writing code to create reliable and easy-to-use systems. Interested in all modern technologies that help develop modern programs. Currently, I am developing web platforms and using the necessary web technologies.

## Contact Information

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## Work Experience

### Senior Software Engineer

#### Elm

*May 2023 – Present*  
*Riyadh, Saudi Arabia*

Elm Company is a Saudi Joint Stock Company owned by Saudi Public Investment Fund (PIF), it is specialized in providing secure electronic services, and has been in existence since 1988 as a technical research and development lab for the Saudi Ministry of Interior.

#### Absher

Absher platform is the electronic platform of the Ministry of Interior. It aims to provide the services of the Saudi Ministry of Interior digitally and in an integrated manner to citizens, residents and visitors, by taking advantage of technical capabilities and harnessing modern technologies. This provides an excellent user experience through automated services with high reliability, security and efficiency.

- Develop and maintain Absher services
- Squad lead and responsible to achieve several absher services.
- Contributed to training and mentoring new joiners to the team.

#### Individual Plate Auction

Developed a comprehensive marketplace platform for plate auctions with advanced bidding engine and real-time functionality. Architected the entire system from scratch, implementing complex features including:

- Designed and implemented auction viewing system.
- Developed dynamic bidding mechanisms with integrated payment processing.
- Created admin dashboard for comprehensive platform management.
- Implemented scheduling and queuing systems for efficient auction management.

#### Achievements

- Built end-to-end auction platform with multiple integrated modules
- Implemented secure payment gateway integration with refund capabilities
- Developed robust backend infrastructure for handling concurrent auctions

### *Technologies used*

Java (up to jdk8), Spring framework, Spring Boot, IBM WebSphere Application Server, IBM WebSphere Portal, IBM WebSphere MQ, Redis, Jenkins, IBM DataPower, IBM Db2, Jira, Bitbucket, JSF

## Software Engineer / Full Stack Developer

### TAHAKOM

*June 2022 - May 2023*

*Riyadh, Saudi Arabia*

#### *Full-time job*

Saudi Technology and Security Comprehensive Control Company (Tahakom) is one of Tahakom Investment affiliated companies, established on 17/11/1436 H – 01/09/2015, based in Riyadh and operates in all regions of the Kingdom. The company vision is to be a leader in leveraging innovative technologies to safeguard and enrich people's journeys and enhance public safety.

- Team lead in several project

Designing and implementing platforms for all the departments while practicing agile methodology to achieve high velocity in delivery in multiple projects.

#### **Intifaa**

Intifaa is platform for Human Resource department to present offers or special offers to the company's employees so that they can benefit from them through the platform

#### *Some achievements include*

- Team lead for this project in the Backend and Frontend
- Participated in the Intifaa Revamp docs project.
- Participated in establishing the software practices used by the Intifaa (Pull Requests, Code Review, Unit Tests, etc...) to assure high quality of the software.
- Participated in the Architecture and Design of the Intifaa Platform.

#### **Notification Center**

Notification center is platform to integrate with multiple SMS providers to send and schedule the messages.

- Combine the projects repository as Monorepo concept to one single repository.
- Create the CI scripts for building projects

### *Technologies used*

Java (up to jdk17), Spring framework, Spring Boot, Spring Cloud, Hibernate, Typescript, Angular, Docker, Openshift, SQL Server, Gitlab, Gitlab CI/CD

## Software Engineer / Freelancer

### Semi

*Jan 2022 – 06/2022*

*Part-time job as freelancer*

Semi is a startup company that aimed to design and build a e-commerce website for clients.

- I have built the backend of Semi website with Spring framework.
- Develop and Maintain websites linked with Salla for clients.

## Education

### B.S. Software Engineering

*Hafr Al Batin University, Hafr Al Batin Saudi Arabia*  
*Sep 2017 - June 2022*

## Certifications

Simplilearn - Full Stack Java Developer  
Jun 2021  
License: [Simplilearn](#)

Udemy - Spring & Hibernate  
June 2020  
License: [Udemy](#)

Udemy - Java Programming Masterclass  
Sep 2019  
License: [Udemy](#)

## Skills

- Good understanding of OOP & Functional style programming.
- Good understanding Test Driven Development and Unit, Integration, E2E Testing.
- Agile Methodologies - Scrum, Kanban.
- Good knowledge in Linux Configuration & shell scripting.
- Basic understanding of the some compilers architecture, e.g. [GCC](#), [GraalVM](#) and others.
- Distributed Programming, messaging, stream processing and data pipelines ([RabbitMQ](#), [Kafka](#), [JMS](#)).
- Good background in Web Services (SOAP-based and REST).
- Experience with full-Stack Web Development ([Angular](#), [Vue.js](#), [Mustache.js](#), and others).
- Basic knowledge Linux programming (syscalls, filesystems, namespaces and others).
- Basic knowledge of IBM solutions ([IBM WebSphere Portal](#), [IBM WebSphere Application Service](#), [IBM WebSphere MQ](#), [IBM Db2](#), [IBM DataPower](#))
- Good understanding of RDBMS, NoSQL databases, Big Data and Database Sharding techniques.
- Basic knowledge and experience about NoSQL solutions such as [MongoDB](#), [Redis](#).
- Experience in different RDBMS - [Oracle](#), [SQL Server](#), [MySQL](#), [PostgreSQL](#), [IBM db2](#).
- Basic understanding of Unicode and other related char encoding standards.
- Basic understanding of OSI model and related protocols ([TCP](#), [UDP](#), [DNS](#), [ARP](#), [FTP](#), [SSH](#), [TLS](#)), and basic knowledge about networking tools like iptables, wireshark, tcpdump, and more.
- Understanding of [OIDC](#) and [OAuth 2.0](#) protocols.
- Hands-on experience in [Jenkins](#), [Bitbucket](#) pipelines, [Docker](#), [Docker Compose](#), [Kubernetes](#), [k3s](#) and [AWS](#).
- Basic knowledge about Data analysis using Python [Pandas](#).

# Languages

- **Arabic** - Native
- **English** - Professional working proficiency