

# Aly SALEH

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## Work Experience

- PRESENT** | **Junior Software Developer at CHECK24 Vergleichsportal GmbH, Munich**  
**JUL 2017** |  
- Developing new loan products for **Kredite24** using **Dockerized** Micro-services with **Spring-Boot** as its back-bone.  
- Using **Redis** for caching, **ActiveMQ** for pub-sub messaging, and **Postgres** as database.  
- **Kubernetes** for high availability, fault-tolerance, and scheduled jobs.  
- Wrote different **Jenkins** pipelines **Groovy** scripts to automate the build, test, and deployment process.  
- Utilizing **Scrum** as our **Agile** software development process.
- MAY 2017** | **Work Student Back-end Software Engineer at IDgard.de, Munich**  
**OCT 2015** |  
- Implemented a proof of concept **JAX-RS** back end that is at least **twice** as fast than the current one.  
- Ran several performance and stress tests using **Apache JMeter**  
- Researched on how to write a new API specification that is RESTful using current trends in technology **swagger.io**.
- OCT 2015** | **Work Student Java Developer at HRForecast.de, Munich**  
**MAY 2015** |  
- Enhanced an analytics tool mainly written in Java with **Vaadin** framework.  
- Refracted the code base since it lacked extensibility and scalability.
- MAR 2015** | **Back-end Software Engineer at Bey2ollak, Cairo**  
**SEP 2012** |  
- Had hands on multiple web and database servers, maintained back-end requests adding more features and solving problems (bugs).  
- Transferred **MySQL** database into SAN storage, used JMeter for functional and load testing, benchmarked MySQL using sysbench.  
- Developed many **JSP** tools and wrote **bash** scripts to dump the database and synchronize the logs to other servers.  
- Participated in a research for handling big data using the **ELK** stack.

## Education

- JUNE 2017** | **Master Degree in Computer Science, Technische Universität München (TUM)**  
**APRIL 2015** | *Major: Software Engineering, Minor: Distributed Systems* | GPA: 1.8  
| **M.Sc Thesis, Context-Sensitive Pervasive Computing for Smart Cities**  
| *Topic repository - Keywords: #Pervasive Computing, #Context Sensitive, #IBM Node-red* | GRADE: 1.3
- JULY 2013** | **Bachelor Degree in Computer Science and Engineering,**  
**JULY 2008** | **The German University in Cairo, Egypt**  
Faculty of Media Engineering and Technology Department of Computer Science and Engineering | GPA: 1.86
- MAY 2012** | **B.Sc Thesis, The University of Ulm, Germany**  
**MAR 2012** | Faculty of Computer Science, Department of Software Engineering and Compiler Construction. | GRADE: A-/A

## Highlights

- PROJECTS** | Algorithms For Programming Contests: Learned new efficient algorithms widely used in programming contests and optimizations.
- | IOS Praktikum: Participated in **CHEST**; A Cyber-Physical System that provides live health data to action forces in critical situations. Learned **Swift 2.0** and Implemented a back end system using **Node.js**, **MQTT** and **MongoDB**.
- | Software Engineering for Business Applications: Used **Play** framework in order to implement a business case after creating a **Business Model Canvas** and **Value Proposition Canvas**.

## Programming Knowledge

- Excellent** | Java, Spring, JPA, MySQL, Postgres, Unix/Linux, GIT, Maven, Jenkins, Docker, Node-Red, CI, CD.
- Good** | Redis, ActiveMQ, Kubernetes, Groovy, Google Guice, Swagger, Load Testing "Jmeter", Logstash, Kibana (ELK Stack), PHP, Javascript, Nodejs, MongoDB, Vaadin, Jquery, JqueryUI, Bash Scripts,  $\text{\LaTeX}$
- Fair** | Python, Swift, Android, ElasticSearch

## Languages and Courses

**English:** Fluent, **German:** Good Knowledge **B1**, **Arabic:** Mother Tongue

## Tech. Interests

Microservices, Reactive Manifesto, Internet Of Things, New programming languages, Scalability, Security.