

# Aly SALEH

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## Work Experience

PRESENT JUL 2017	<b>Junior Software Developer at CHECK24 Vergleichsportal GmbH, Munich</b> <ul style="list-style-type: none"><li>- Developing new loan products for <b>Kredite24</b> using <b>Dockerized</b> Micro-services with <b>Spring-Boot</b> as its back-bone.</li><li>- Using <b>Redis</b> for caching, <b>ActiveMQ</b> for pub-sub messaging, and <b>Postgres</b> as database.</li><li>- <b>Kubernetes</b> for high availability, fault-tolerance, and scheduled jobs.</li><li>- Using <b>Jenkins</b> to build and deploy Docker containers to Kubernetes clusters.</li><li>- Utilizing <b>Scrum</b> as our <b>Agile</b> software development process.</li></ul>
MAY 2017 OCT 2015	<b>Work Student Back-end Software Engineer at IDgard.de, Munich</b> <ul style="list-style-type: none"><li>- Implemented a proof of concept <b>JAX-RS</b> back end that is at least <b>twice</b> as fast than the current one.</li><li>- Ran several performance and stress tests using <b>Apache JMeter</b></li><li>- Researched on how to write a new API specification that is RESTful using current trends in technology <b>swagger.io</b>.</li></ul>
OCT 2015 MAY 2015	<b>Work Student Java Developer at HRForecast.de, Munich</b> <ul style="list-style-type: none"><li>- Enhanced an analytics tool mainly written in Java with <b>Vaadin</b> framework.</li><li>- Refracted the code base since it lacked extensibility and scalability.</li></ul>
MAR 2015 SEP 2012	<b>Back-end Software Engineer at Bey2ollak, Cairo</b> <ul style="list-style-type: none"><li>- Had hands on multiple web and database servers, maintained back-end requests adding more features and solving problems (bugs).</li><li>- Transferred <b>MySQL</b> database into SAN storage, used JMeter for functional and load testing, benchmarked MySQL using sysbench.</li><li>- Developed many <b>JSP</b> tools and wrote <b>bash</b> scripts to dump the database and synchronize the logs to other servers.</li><li>- Participated in a research for handling big data using the <b>ELK</b> stack.</li></ul>

## Education

JUNE 2017 APRIL 2015	<b>M.Sc. Informatik Student, 4rth Semester</b> <b>Technische Universität München (TUM), Germany</b> <i>Major: Software Engineering, Minor: Distributed Systems</i>   GPA: 1.8
	<b>M.Sc Thesis, Context-Sensitive Pervasive Computing for Smart Cities</b> <b>Topic repository</b> - Keywords: <a href="#">#Pervasive Computing</a> , <a href="#">#Context Sensitive</a> , <a href="#">#IBM Node-red</a>   GRADE: 1.3
JULY 2013 JULY 2008	<b>Bachelor Degree in Computer Science and Engineering,</b> <b>The German University in Cairo, Egypt</b> Faculty of Media Engineering and Technology Department of Computer Science and Engineering   GPA: 1.86
MAY 2012 MAR 2012	<b>B.Sc Thesis, The University of Ulm, Germany</b> 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 <a href="#">CHEST</a> ; A Cyber-Physical System that provides live health data to action forces in critical situations. Learned <b>Swift 2.0</b> and Implemented a back end system using <b>Node.js</b> , <b>MQTT</b> and <b>MongoDB</b> .
	Software Engineering for Business Applications: Used <b>Play</b> framework in order to implement a business case after creating a <b>Business Model Canvas</b> and <b>Value Proposition Canvas</b> .

## Programming Knowledge

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