

# Aly SALEH

Phone: 017672763029, **in:** [Aly Saleh](#), **Q:** [@SalehAly](#), E-mail: [aly.mostafa15@gmail.com](mailto:aly.mostafa15@gmail.com),  
Address: Karl-Köglsperger-Straße, 80939, Munich, Nationality: Egyptian, Date of Birth: 1 December 1991



## Work Experience

PRESENT 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><li>- Participated in a research in order to transfer our back-end into <b>Micro-services</b> with <b>Message queues</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 Vaadin 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

PRESENT 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: 2.0
PRESENT	<b>M.Sc Thesis Context-Sensitive Pervasive Computing for Smart Cities</b> <a href="#">Topic repository</a> - Keywords: <a href="#">#Pervasive Computing</a> , <a href="#">#Context Sensitive</a> , <a href="#">#IBM Node-red</a> Expected Graduation date <b>June 2017</b>	
JULY 2013 JULY 2008	<b>Bachelor Degree in Computer Science and Engineering,</b> <b>The German University in Cairo, Cairo</b> Faculty of Media Engineering and Technology Department of Computer Science and Engineering	GPA: 1.86
MAY 2012 MAR 2012	<b>Bachelor Project, The University of Ulm, Germany</b> Faculty of Computer Science, Department of Software Engineering and Compiler Construction. Thesis: "CHR-based Text Mining and Classification of Google Search Results" Advisor: Prof. Thom FRÜHWIRTH	GPA: A-/A

## Highlights

PROJECTS	Algorithms For Programming Contests: Learned new efficient algorithms widely used in programming contests.
	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> .
Seminars	Internet-Scale Distributed Systems Seminar: Gave a presentation and wrote a report about <b>redis</b> replication, clustering and persistence.

## Programming Knowledge

<b>Excellent</b>	Java, Servlets, JAX-RS, JSP's, JPA, MySQL, Linux, GIT, Maven.
<b>Good</b>	Spring boot, Google Guice, Swagger, Docker, Load Testing "Jmeter", Logstash, Kibana (ELK Stack), Play Javascript, Nodejs, MongoDB, Vaadin, JQuery, JQueryUI, Bash Scripts $\LaTeX$
<b>Fair</b>	Python, Swift, Android, ElasticSearch

## Languages and Courses

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