

Aly SALEH

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Work Experience

PRESENT OCT 2015	Work Student Back-end Software Engineer at IDgard.de, Munich <ul style="list-style-type: none">- 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.- Participated in a research in order to transfer our back-end into Micro-services with Message queues.
OCT 2015 MAY 2015	Work Student Java Developer at HRForecast.de, Munich <ul style="list-style-type: none">- Enhanced an analytics tool mainly written in Java with Vaadin framework.- Refracted the code base since it lacked extensibility and scalability.
MAR 2015 SEP 2012	Back-end Software Engineer at Bey2ollak, Cairo <ul style="list-style-type: none">- 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

PRESENT APRIL 2015	M.Sc. Informatik Student, 4rth Semester Technische Universität München (TUM), Germany <i>Major: Software Engineering, Minor: Distributed Systems</i>	GPA: 2.0
PRESENT	M.Sc Thesis Context-Sensitive Pervasive Computing for Smart Cities Topic repository - Keywords: #Pervasive Computing , #Context Sensitive , #IBM Node-red Expected Graduation date June 2017	
JULY 2013 JULY 2008	Bachelor Degree in Computer Science and Engineering, The German University in Cairo, Cairo Faculty of Media Engineering and Technology Department of Computer Science and Engineering	GPA: 1.86
MAY 2012 MAR 2012	Bachelor Project, The University of Ulm, Germany 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 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 .
Seminars	Internet-Scale Distributed Systems Seminar: Gave a presentation and wrote a report about redis replication, clustering and persistence.

Programming Knowledge

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

Languages and Courses

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