Aly SALEH

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Work Experience

PRESENT JUL 2017	**Junior Software Developer** at **CHECK24 Vergleichsportal GmbH**, Munich - 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. - Using **Jenkins** to build and deploy Docker containers to Kubernetes clusters.
MAY 2017 OCT 2015	**Work Student Back-end Software Engineer** at **IDgard.de**, Munich - 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 - 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 - 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 APRIL 2015	**M.Sc. Informatik Student**, 4rth Semester **Technische Universität München (TUM)**, Germany *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 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	**B.Sc Thesis, The University of Ulm**, Germany 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, Google Guice, Swagger, Load Testing "Jmeter", Logstash, Kibana (ELK Stack), PHP, 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

Tech. Interests

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