

Aly SALEH

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Work Experience

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| 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

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| 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

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| 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

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| Excellent | Java, Servlets, JAX-RS, JSP's, JPA, MySQL, Linux, GIT, Maven, JIRA, Confluence, Bamboo. |
| 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

Tech. Interests

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