

# SAYED AHMAD SAHIM

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## EDUCATION

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### Technische Universitt Berlin, Germany

October 2018

MCS. in Computer Science

Overall GPA: Still studying

### Herat University, Herat, Afghanistan

December 2015

BCS. in Computer Science Information and communication systems

Member of Kandahar University

Overall GPA: 1.3

## EXPERIENCE

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### ZiiK,TU

August - March 2018

*Software developing internship*

*Berlin, DE*

- Design a web application to find the nearest available doctor.
- Allow patients find specialists related to their sickness type.
- Allow patients to see the appointments with the doctor and book an appointment.
- The following technologies are used:
- Java Spring Boot framework along with JPA and Hibernate persistent API in the back-end.
- Bootstrap and JavaScript in the front-end.
- Gradle as a build system
- git with gitlab as a software version control system.

### CIT, TU

November 2017 - March 2018

*Cloud Application Architect*

*Berlin, DE*

- We were assigned to deploy server images in the cloud.
- Our responsibility was to design a topology for the cloud services and deploy them accordingly.
- We used dockerized images for the deployment.
- Heat template was used to host services running in Docker containers managed by Docker Swarm.
- We configured all the services with load balancing and fault tolerance.
- To perform all the above tasks we used EC2 Amazon cloud and OpenStack APIs.

### DIMA,TU

April - August 2017

*Software Developer*

*Berlin, DE*

- Implement a federated layer for heterogeneous information systems.
- The heterogeneous system contained three main components (Public Transport, Cinema, and restaurant)
- We implemented the public transport component responsible for finding the shortest and nearest possible transport.
- We used Java programming language along with maven and git tools
- We used the Mapzen and OpenStreetMap APIs to calculate the shortest path between two points and find the available transports between the source and destination.

### ZiiK,TU

April - August 2017

*NoSQL database internship*

*Berlin, DE*

- My job was to design a restful API based on NoSQL database.
- We used Ebay-kleinanzeigen used cars data set.
- Python programming language and Bottle framework was used in the back-end.
- MangoDB was used to store the dataset.
- It was an API we didn't need to work on the front end but for the purpose of data visualization I used bootstrap and JavaScript.
- Finally the application was deployed and tested in a docker container

**Kandahar University**  
*Software Developer*

January - March 2015  
*Kandahar, AFG*

- Implement the university information system.
- My task was to work on the student registration component.
- The component was also responsible for printing student ID cards
- At the back end we had PHP programming language with MySQL database
- At the front end we had HTML, CSS and JavaScript

**Kandahar University**  
*Lecturer*

March 2015 - April 2016  
*Kandahar, AFG*

- Responsible for teaching Java programming language courses from basics to advance. The content of the course included basic programming for beginners, Object-Oriented programming, Java Swing GUI programming, threads and advanced exception handling in Java. Generic programming, sequential and associative data structures, classic data structures, sorting and searching, exception handling, database programming with JDBC, networking programming GUI development using Swing and an overview of Multithreading. The course also explores Java Applets, web applications (Servlets), advanced input and output classes, more advanced strings, regular expressions, Java graphics, and finally, closing off with a look at using Eclipse and IntelliJ Idea IDE.

**Herat University**  
*System Administrator*

February 2011 - December 2014  
*Herat, AFG*

- I worked in a group of four people for the system administration in the network operation center NOC. I was responsible for the installation and maintenance of Linux servers. The Linux servers were hosting squid proxy traffic shaping for the entire university. We were responsible for configuring the above services. Filter the contents of the Internet, provide a fixed data quota for each user. For the user management, we were using Samba and LDAP directory. We also configured Samba as a primary domain controller. Finally, we were responsible to regularly backup the server, in case of disaster we were able to have zero downtime.

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	Java, PHP, JavaScript, Python, HTML, CSS
<b>Protocols &amp; APIs</b>	JSON, REST
<b>Databases</b>	MySQL, MangoDB,
<b>Tools</b>	SVN, Vim, Nano, Github, Gitlab