

O W A I S A H M E D

Software Developer/Scientist

MOTIVATION

Enthusiastic software developer eager to contribute to team success through hard work, versatility, attention to detail and excellent organizational skills. Clear understanding of Angular and Python and training in Java. Motivated to learn, grow and excel in software development industry.



INTERESTS & SKILLS

Angular, Python, Typescript, JavaScript, Node.js, Java, REST, Natural language processing, SQL, MongoDB, Flask, Django, Docker, Maven, Git, Agile methodology, Continuous integration and development, Github actions.



EXPERIENCE

Sep 2021

Student Research Scientist

Fraunhofer FKIE, Bonn, Germany

- Created and delivered UI services for demo purposes.
- Developed and maintained XML validation software in Java EE.
- Developed REST services using Django framework in Python.
- Successfully finished master thesis 'Unsupervised Link Discovery Between Unstructured Text and Taxonomy' during the student research scientist job.
- Developed and maintained map related UI in Angular 8 allowing to modify elements on the map using mouse and voice recognition.
- Prepared a variety of different written communications, reports and documents to ensure smooth operations.

Sep 2018

- Proved successful working within tight deadlines and fast-paced atmosphere.

Oct 2017

Systems Engineer and Full Stack Developer

Tata Consultancy Services, Hyderabad, India

- Ericsson Network Manager(ENM): ENM is a collection of virtual management tools based on a single software platform designed to provide unified network management capability across Radio access, Transport, and Core networks.
- Developed the UI of "Link Management" module for creating and managing links between network elements as part of ENM.
- Developed software functionalities using Node.js, the JavaScript runtime environment, Java EE and REST.
- Produced Integration tests for the modules created using Arquillian and later on tested the same on Docker images.
- Helped pass on the knowledge to the new hires by training them in abovementioned modules and regarding coding practices/guidelines.
- Worked on minimizing the resources held by Jboss EAP servers in a cluster environment to increase the efficiency.



Bonn, NW • +49 176 577 80919 • oowais@gmail.com • <https://github.com/oowais>

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Aug 2014

- Managed development milestones from initial steps through final delivery.
- Coordinated with other engineers to evaluate and improve software interfaces.
- Reviewed code, debugged problems and corrected issues.
- Consulted with engineering team members to determine system loads and develop improvement plans.

Jun 2013

Computer Engineer (Trainee)

Dion Global Solutions, Noida, India

1 Mo

May 2013

- Aided in analyzing and migrating the code from Java SE 5 to 6.
- Learnt basics of Android programming and database management.
- Created product design modifications.



PROJECTS

Jaadu - the Alien in FabTerrarium (Oct 2018 - Jan 2019)

<https://github.com/oowais/Jaadu>

Jaadu is an alien in the FabTerrarium, an open space with different animals/plants interacting with their environment or external users. It crawls in the terrarium reading the emotions of the other entities and displaying those emotions in itself. The materialization of Jaadu is a combination of Arduino, RasPI, 3D Modelling, Sensors, comm modes and LEDs. (team size: 3)

Languages used: Python, C++

Muses (Oct 2018 - Feb 2019)

<https://github.com/oowais/Muses>

Music recommendation system using content based music similarity. An audio comparison system which compares features of sound/music and recommends the closest song. (team size: 1)

Language used: Python

LabChain (Apr 2018 - Aug 2018)

<https://github.com/oowais/LabChain>

Created a Blockchain core called LabChain as part of a lab held by Fraunhofer FIT Blockchain Lab. (team size: 5).

Components developed:

- Blockchain Core component (Blocks, Branches, Transactions handling)
- Automatic Peer Discovery using DNS Seeding
- Database store and recovery of Blocks.

Language used: Python

Sock it Up

A robot built using 'MakeBlock Ultimate Robot Kit' to help physically impaired or older people to wear socks without using any hands. Made as part of UIST Student Innovation Contest 2018 (team size: 5, team name: MindBenders).

Open CV based Trajectory Tracking of a Laser Beam (2013)

Tracking of a laser beam and rendering it on the display screen using projector using OpenCV. (team size: 2) **Language used: C++**



EDUCATION

Oct 2017 - Sep 2021

• Master of Science: Media Informatics

RWTH Aachen University, Germany
Score 1.8 (German scale)

Jul 2010 - Apr 2014

• Bachelor of Science: Computer Engineering

Jamia Millia Islamia, India. 7.9/10

Relevant courses studied in the curriculum: -

- Data Communication and Internet Technology
- Data Science and Big Data
- Intelligent Information Systems
- Computer Graphics
- User Centered Technology Design
- Web science
- Design Thinking
- Designing Interactive Systems
- Communications in Digital Age
- Language, Mind and Media



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