

Mohamed A. A. Haseeb

(SOFTWARE | SYSTEMS | MACHINE LEARNING) ENGINEER

Stockholm, Sweden

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I am a software engineer with broad experience, interested on using machine learning (specially deep learning) and data science techniques to build innovative solutions. I do often come with original ideas, patient and passionate about exploring and learning new things.

Education

KTH (Royal Institute of Technology)

Sweden, Stockholm

MASTER OF SCIENCE IN MACHINE LEARNING

Sep. 2014 - Jun. 2017

- Thesis project: Detecting hand gestures on existing unmodified smartphones using Wi-Fi signal strength and LSTM RNNs models. ([Youtube link](#))
- Selected project: Predicting human face attributes from images with deep learning.
- Selected project: Implementing a deep neural network for a speech recognition task.
- Selected project: Learning to play Pacman with reinforcement learning using neural networks. ([Youtube link](#))
- Selected project: Building a video search engine (exploiting the video content) using elasticsearch and kibana.

University of Khartoum

Sudan, Khartoum

BACHELOR OF SCIENCE (HONOUR) IN ELECTRICAL AND ELECTRONIC ENGINEERING

Nov. 2002 - Jul. 2007

- Discipline: Communication Systems.
- GPA: 7.65/10 (top 5%).
- Thesis project: Design and Implementation of an IPv6 Firewall.
- Selected courses: Electrical Circuits, Power systems, Digital Signal Processing.

Honors & Awards

2014	Employee of the month in my department (around 60 employees) , Ericsson	Sweden, Stockholm
2012	Reward and Recognition for outstanding performance in delivering a project , Ericsson	Sudan, Khartoum
2007	Best Electrical Engineering Graduation Project (Bachelor level) , Association for the Promotion of Scientific Innovation 2007 fairs	Sudan, Khartoum

Skills

Methods	Agile development.
Programming	Java, Python, Javascript, C/C++, Matlab, Bash.
Machine Learning/ data science	scikit-learn, numpy, pandas, SciPy, Tensorflow, Keras, MatConNet, digitz(Caffe), FANN, Dlib, torch, MPI.
Backend	Microservices, Spring, Mysql, Sql, Elasticsearch, Hibernate, RabbitMq, REST, Docker.
Frontend	HTML, AngularJS, D3.js, Bootstrap, Android, Ionic.
Cloud and virtualization	OpenStack, Docker, Amazon Web Services (AWS), Google Compute/App Engine.
CI/CD	Git/Gerrit, Maven, Junit, Jenkins, Artifactory, Eiffel.
Languages	English, Arabic.

Experience

Watty AB

Sweden, Stockholm

MACHINE LEARNING ENGINEER

Jan. 2017 - current

- Applying different machine learning and other algorithmic methods to perform power disaggregation.
- Software development of production machine learning models including testing, deployment and maintenance.

Ericsson AB

Sweden, Stockholm

SOFTWARE DEVELOPER & SCRUM MASTER

Mar. 2014 - Dec. 2016

- Leading an Agile Scrum team of 5 software developers.
- Developing CI/CD pipelines and reporting systems.
- Leading role in designing, implementing and deploying a large scale CI/CD pipeline which enabled automatic software testing and test results reporting, connecting 40+ development groups within Ericsson.
- Tools and frameworks: Java(Maven, Spring, Hibernate, Junit), Python, Bash, JavaScript(AngularJS, D3.js), Boot-strap, Git/Gerrit, Artifactory, Jenkins, Eiffel, RabbitMq and Docker.

Ericsson AB

Sweden, Stockholm

VERIFICATION AND AUTOMATION ENGINEER

Sep. 2012 - Feb. 2014

- Test strategy definition and implementation for a product based on Ericsson's CBA platform (A high-available application platform).
- Test environment design and deployment.
- Software testing automation using a Junit based framework.
- Tools and frameworks: Scrum, Java(Maven, Junit), Python, Bash, Git/Gerrit, Clearcase, Artifactory, Jenkins.

Ericsson AB

Sudan, Khartoum

SYSTEMS INTEGRATOR

Apr. 2010 - Aug. 2012

- Analysing Ericsson's customers needs, and proposing solutions to address them.
- Planning and performing solutions deployments.
- Contributed to the successful delivery of 6 projects on the Business Support Solutions area (charging, billing and mediation). This involved solution deployments to a live mobile network with 12M+ subscribers.

Ericsson AB

Sudan, Khartoum

TESTER/INTEGRATOR ENGINEER

Jun. 2008 - Apr. 2010

- Planning and executing the configuration, testing and integration of network solutions and nodes.
- Performing acceptance tests.
- Contributed to the successful delivery of 4 projects on the GSM/WCDMA RAN access and transport areas.

Ericsson AB

Sudan, Khartoum

INSTALLATION ENGINEER

Feb. 2008 - Jun. 2008

- Preparing plans for the installation of Ericsson equipments within Ericsson's customers networks.
- Supervising the installation technicians.
- Contributed to the successful deployment of several GSM and WCDMA RAN access and transport nodes.

University of Kharoutm, Network Technology and administration center

Sudan, Khartoum

NETWORK DEVELOPER

Aug. 2007 - Jan. 2008

- Developing new software applications that aim to optimize the campus network operation.
- Developed an automatic Backup and Recovery System for the campus application servers running on Unix-Like systems, using PHP, TCL and Expect.

University of Kharoutm, Faculty of Engineering

Sudan, Khartoum

TEACHING ASSISTANT

Aug. 2007 - Jan. 2008

- Prepare and deliver tutorials and laboratories for 4th and 5th year undergrad students.
- Arranged laboratories and tutorials for: "Java Technology", "Communication and Antenna systems" and "Data Communication and Computer Networks".

Selected Extracurricular Activities

Maintainer of the open-source shapelet-python library

Sweden, Stockholm

2016

- I developed (and currently maintaining) a python implementation of the Learning Time-Series Shapelets method by Josif Grabocka et al..
- The library source code is available *on github*.

I occasionally blog about interesting projects I worked on

Sweden, Stockholm

2014

- Including cool things like: how I got a first hand rental contract in Stockholm in less than a month using a software I wrote, and how I built a software that learns to play Pac-Man on its own.
- The blog url is: mohaseeb.github.io or ***click here***.

References

- Available upon request.