

Curriculum vitae

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Overview

I'm an experienced software engineer and a data enthusiast who loves to tackle challenges with creativity and knowledge. I like the challenges that big data brings and feel excited about big data technologies, machine learning, deep learning, and statistical analysis and how it shows the hidden insight and changing our life.

Experience

March 2018 - **Data Engineer and Administrator at BMW Car IT**

Continuing

Responsibilities:

- Design, build and manage the BigData environment with Hortonworks Data Platform (HDP).
- Writing ETL jobs on HDP to handle unstructured data.
- Building data asset for Software Pipeline Analytics project.

Technologies: Apache Hadoop, Spark, Hive, Ansible

September 2016 - **Software Engineer at BMW Car IT**

February 2018

Responsibilities:

- Designing and developing "Speech" middleware component for BMW head-unit to enable voice control for navigation, entertainment, and other components.
- Writing communication wrapper for "Speech" middleware to communicate with different internal and external components of the head-unit.
- Maintaining BMW test racks (head-unit).
- Test and Release the "Speech" middleware component.

Technologies: Linux, C++14, Boost, Python, SQLite, GCC, CMake, Git

September 2014 - **Software Engineer at Amadeus IT**

August 2016

Responsibilities:

- Developing message switching middleware application to ensure guaranteed message delivery of a distributed system.
- Configuring and deploying the software.

Technologies: Linux, C++, Boost, gcc, SQLite, GCC

October 2013 - **Work Student at Siemens AG**

March 2014

Responsibilities:

- Developed an iPad application along with a sensor network to measure the quality of the working environment.
- Collecting different sensor's data and visualize them in a user-friendly and interactive way.

Technologies: iOS, Objective-C, Raspberry-Pi, C++, Libelium sensors.

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- June 2012 - September 2013 **Research Assistant (HiWi) at Fortiss GmbH**
Responsibilities:
- Developing self-balancing “Smart Office” with different sensors and actuators including power storage devices.
 - Designing communication protocol in order to connect the sensors into the system.
 - Writing wrappers for different sensors and actuators.
- Technologies:** Linux, Java, GWT, MySql
- September 2010 - February 2012 **Software Engineer at Samsung Bangladesh R&D Center Ltd.**
Responsibilities:
- Developing application on Samsung’s mobile development platform.
- Technology:** NXP, C

Education

- September 2014 **Master of Science in Informatics**
Technische Universität München, München, Germany
Specialisation: Software Engineering
- October 2009 **Bachelor of Science in Computer Science and Engineering**
Ahsanullah University of Science and Technology, Dhaka, Bangladesh
Specialisation: Software Engineering

Training and Certification

- Course by ACloudGuru **AWS Certified Solution Architect - Associate**
- Course by ACloudGuru **AWS Certified Developer - Associate**
- MOOC By UC San Diego **Big Data Specialisation**
- 5 Courses including a capstone project
- Pluralsight course **Applying the Lambda Architecture with Spark, Kafka, and Cassandra**
- Udemy course By Jose Portilla **Python for Data Science and Machine Learning Bootcamp**
- man7.org **Linux / UNIX system programming**
- Amadeus internal training **Secure Software Development with C++**

Technical Skills

- Dev. Philosophy:** OOP, OOAD, Design patterns and principles
- Languages:** Python, Scala, JavaScript, C++, SQL
- Big Data Tools:** Hortonworks Data Platform, Apache Hadoop, Apache Spark, Kafka, Hive, Ansible
- Cloud Tech.** OpenStack, AWS
- Data analysis lib:** Numpy, Pandas, Matplotlib, Seaborn
- Database:** SQL Server, MySql, SQLite, Cassandra, DynamoDB

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C++ Libraries: C++14, Boost, Qt

Build tools: Make, CMake, Maven

Source Control: Git, SVN

Agile & PM tools: Scrum, Confluence

IDE: IntelliJ, Eclipse, Qt Creator, Netbeans, Zeppelin, Jupyter Notebook

Project Works

MSc Thesis **Title:** Improving usage control with intra-process data-flow tracking.
Description: Using runtime binary analysis and data flow analysis, I built a tool which tracks the flow of the data, once a software gets access to important and sensitive user information. The tool also informs the user if a certain sensitive information is used in an unintended way.
Technologies: C++, Thrift, Binary analysis tool (Pin), Data flow analysis tool (Libdft)

Language Proficiency

English (Fluent)

German (Beginner)