

Curriculum vitae

Asish Biswas

Email: asish012@gmail.com

Mobile: +49 176 43274219

Stifterweg 38/1
89075 Ulm, Germany

Overview

I'm a software engineer who loves to tackle challenging problems with creativity and knowledge of new technologies. I'm Experienced with software development in C++ and python for distributed systems, mobile devices, and high-performance systems. I'm also very much passionate about cloud computing and big data.

Experience

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

Continuing

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

June 2012 - **Research Assistant (HiWi) at Fortiss GmbH**

September 2013

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: Java, GWT, MySql

Curriculum vitae

September 2010 - February 2012 **Software Engineer at Samsung Bangladesh R&D Center Ltd.**
Responsibilities:

- Developing application on Samsung's mobile development platform.

Technology: 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

Training by man7.org **Linux / UNIX system programming**

Amadeus internal training **Secure Software Development with C++**

Course by ACloudGuru **AWS Certified Solution Architect - 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**

Pluralsight course **Building an Enterprise Grade Distributed Online Analytics Platform**

Technical Skills

Dev. Philosophy: OOP, OOAD, Design patterns and principles

Languages: C++, Python, Scala, JavaScript, SQL

C++ Libraries: STL, Boost, Qt

Big Data Tools: Apache Spark, Apache Kafka, HDFS, Cassandra

Data analysis lib: Pandas, Matplotlib, Seaborn

Database: SQL Server, MySQL, SQLite, Cassandra

Cloud Tech. AWS Certified Solution Architect - Associate (Course Completed)

Build tools: Make, CMake, Maven

Source Control: Git, SVN

Agile & PM tools: Scrum, Confluence

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

Curriculum vitae

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)
Bengali (Native)