Curriculum vitae

Asish Biswas

Email: asish012@gmail.com

Mobile: +49 176 43274219

Stifterweg 38/1
89075 Ulm, Germany

Overview

A software engineer who loves to tackle challenging problems with creativity and knowledge of new technologies. Experienced with software development (C++) for distributed systems, mobile devices, and high-performance systems running on Linux platform and very much passionate about Big Data.

Experience

September 2016 - Continuing

Software Engineer at BMW Car IT
- Designing and developing "Speech" middleware component for BMW head-unit and enabling voice control for navigation, entertainment, and others.
- Writing communication wrapper for "Speech" middleware to communicate with different internal and external components of the head-unit.
- Maintaining BMW test racks (head-unit).

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

September 2014 - August 2016

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

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

October 2013 - March 2014

Work Student at Siemens AG
- 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 - September 2013

Research Assistant (HiWi) at Fortiss GmbH
- 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

September 2010 - February 2012

Software Engineer at Samsung Bangladesh R&D Center Ltd.
- Developing application on Samsung's mobile development platform.

Technology: C++

Education

September 2014

Master of Science in Informatics
Technische Universität München, München, Germany
Specialization: Software Engineering

<p style="text-align:center">Curriculum vitae</p>

October 2009	**Bachelor of Science in Computer Science and Engineering** Ahsanullah University of Science and Technology, Dhaka, Bangladesh **Specialization:** Software Engineering

Training and Certification

MOOC By UC San Diego	**Big Data Specialization** ● 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**
Pluralsight course	**Apache Spark Fundamentals**
Pluralsight course	**Getting Started with Apache Kafka**
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 patters and principles
Languages:	C++, Python, Scala, JavaScript, Objective-C
C++ Libraries:	STL, Boost, Qt
Big Data Tools:	Apache Spark, Apache Kafka, Apache Storm
Libraries:	Pandas, Matplotlib, Seaborn
Database:	Cassandra, SQLite, MS-SQL, MySql
Build tools:	Make, CMake
Source Control:	Git, SVN
Agile & PM tools:	Scrum, Confluence
IDE:	Eclipse, Qt Creator, Netbeans

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)