Curriculum vitae

Asish Biswas

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Overview

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

Experience

January 2019 - Continuing

Data Engineer and Cloud Architect at BMW AG Responsibilities:

- Design and build a unified data asset for Software Pipeline Analytics project by bringing together scattered structured and unstructured data.
- Designing, building and maintaining our on-premise big-data cloud environment with Hortonworks Data Platform (HDP).
- Writing ETL jobs on HDP to handle unstructured data.

Technologies: Python, Ansible, Hadoop, Spark, Hive

September 2016 -

December 2018

Software Engineer at BMW Car IT Responsibilities:

- Design and develop "intelligent personal voice assistant" middleware component for BMW head-unit to enable voice control for navigation, entertainment, and other functionalities.
- Write communication wrapper for middleware modules to enable communication between 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 -August 2016

Software Engineer at Amadeus IT Responsibilities:

- Develop message switching middleware application to ensure guaranteed message delivery of a distributed system.
- Build, release and maintain the messaging service on Amadeus datacenter.

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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.

Technologies: iOS, 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.

Technologies: Linux, Java, GWT, MySql

September Software Engineer at Samsung Bangladesh R&D Center Ltd.

2010 - Responsibilities:

February 2012 • Developing application on Samsung's mobile development platform.

Technology: NXP, C

Education

September Master of Science in Informatics

2014 Technische Universität München, München, Germany

Specialization: Software Engineering

October 2009 Bachelor of Science in Computer Science and Engineering

Ahsanullah University of Science and Technology, Dhaka, Bangladesh

Specialization: Software Engineering

Technical Skills

Dev. Style: OOP, OOAD, Design patters and principles, CI-CD

Languages: C++, Python, Scala, SQL

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

Database: SQL Server, MySql, SQLite, Cassandra, DynamoDB, MongoDB

Big Data Tools: Apache Spark, Kafka, Ansible

Cloud Tech. AWS, OpenStack

Data analysis: Numpy, Pandas, Matplotlib, Seaborn

Build tools: Make, CMake, Maven

Source Control: Git, SVN

PM tools: Scrum, Confluence

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Training and Certification

- Linux / UNIX system programming man7.org
- Secure Software Development with C++ Amadeus Training
- AWS Certified Big Data Specialty Course by Linux Academy
- Advanced python training Python academy
- Machine Learning Specialization (4 Courses including several projects)
 Coursera University of Washington

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)