

Curriculum vitae

Asish Biswas

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Overview

I'm an experienced software engineer and a data enthusiast with experience in big-data technologies such as apache spark, kafka, casandra, hdfs and other tools from hadoop ecosystem. I'm also experienced in statistical learning and machine learning and I love to tackle the challenges big-data is bringing with my creativity and knowledge.

Experience

July 2018 -
Continuing

Data Engineer and Administrator at BMW AG

Responsibilities:

- Building a data asset environment 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 -
February 2018

Software Engineer at BMW Car IT

Responsibilities:

- Designing and developing "intelligent personal voice assistant" middleware component for BMW head-unit to enable voice control for navigation, entertainment, and other functionalities.
- Writing communication wrapper for several 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:

- 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

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October 2013 - March 2014	Work Student at Siemens AG Responsibilities: <ul style="list-style-type: none">• 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 - September 2013	Research Assistant (HiWi) at Fortiss GmbH Responsibilities: <ul style="list-style-type: none">• Developing self-balancing “Smart Office” with different sensors and actuators including power storage devices. Technologies: Linux, Java, GWT, MySql
September 2010 - February 2012	Software Engineer at Samsung Bangladesh R&D Center Ltd. Responsibilities: <ul style="list-style-type: none">• Developing application on Samsung’s mobile development platform. Technology: NXP, C

Education

September 2014	Master of Science in Informatics 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

Training and Certification

Course by Linux Academy	AWS Certified Big Data – Specialty
Coursera course - UC San Diego	Big Data Specialization <ul style="list-style-type: none">• 5 Courses including a capstone project
Coursera course - University of Washington	Machine Learning Specialization <ul style="list-style-type: none">• 4 Courses including several projects
Pluralsight course	Applying the Lambda Architecture with Spark, Kafka, and Cassandra
man7.org	Linux / UNIX system programming

Technical Skills

Dev. Philosophy:	OOP, OOAD, Design patterns and principles
Languages:	Python, C++, Scala, Java, SQL
Big Data Tools:	Hortonworks Data Platform, Apache Hadoop, Spark, Kafka, Hive, Ansible
Cloud Tech.	OpenStack, AWS
Data analysis lib:	Numpy, Pandas, Matplotlib, Seaborn

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

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

Build tools: Make, CMake, Maven

Source Control: Git, SVN

Agile & PM tools: Scrum, Confluence

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)