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| **Asish Biswas** Email: asish012@gmail.com Mobile: +49 176 43274219 Jagdfeldring 66  85540 Haar, Germany | |
| **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** | |
| **Data Engineer at BMW AG**  [January 2019 – Continuing]  **Responsibilities:**   * Building a data asset system 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 | |
| **Software Engineer at BMW Car IT**  [September 2016 - December 2018]  **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 | |
| **Software Engineer at Amadeus IT**  [September 2014 - 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 | |
| **Work Student at Siemens AG**  [October 2013 - 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. | |
| **Research Assistant (HiWi) at Fortiss GmbH**  [June 2012 - September 2013]  **Responsibilities:**   * Developing self-balancing “Smart Office” with different sensors and actuators including power storage devices.   **Technologies:** Linux, Java, GWT, MySql | |
| **Software Engineer at Samsung Bangladesh R&D Center Ltd.**  [September 2010 - February 2012]  **Responsibilities:**   * Developing application on Samsung’s mobile development platform.   **Technology:** NXP, C | |
| **Education** | |
| **Master of Science in Informatics**  [September 2014]  Technische Universität München, München, Germany  **Specialization:** Software Engineering | |
| **Bachelor of Science in Computer Science and Engineering**  [October 2009]  Ahsanullah University of Science and Technology, Dhaka, Bangladesh  **Specialization:** Software Engineering | |
| **Training and Certification** | |
| **AWS Certified Big Data – Specialty**  By: Linux Academy | |
| **Big Data Specialization**  5 Courses including a capstone project  By: Coursera UC San Diego | |
| **Machine Learning Specialization**  4 Courses including several projects  By: Coursera - University of Washington | |
| **Applying the Lambda Architecture with Spark, Kafka, and Cassandra**  By: Pluralsight | |
| **Linux / UNIX system programming**  By: man7.org | |
| **Technical Skills** | |
| **Dev. Style:** | OOP, OOAD, Design patters 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:** | Numpy, Pandas, Matplotlib, Seaborn |
| **Database:** | SQL Server, MySql, SQLite, Cassandra, DynamoDB, MongoDB |
| **C++ Libraries:** | C++14, Boost, Qt |
| **Build tools:** | Make, CMake, Maven |
| **Source Control:** | Git, SVN |
| **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) | |