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|  | | **Asish Biswas** Email: asish012@gmail.com Mobile: +49 176 43274219 85540 Haar, Germany |
| **Overview** | | |
| I’m an engineer with Master of Science (MSc) in Informatic from Technische Universität München (TUM). I’m experienced with secure software development with C++ and python for distributed systems, mobile devices, and embedded devices. I’m also passionate about cybersecurity and cloud technologies. My goal is to learn and grow as a better person and as a better professional, every day. | | |
| **Experience** | | |
| 01.01.2019 -  Continuing | **Data Engineer and Cloud Architect at BMW AG**  **Responsibilities:**   * Drive the initiative to build a unified data asset for Software Pipeline Analytics project by bringing together scattered structured and unstructured data. * Design, build and maintain our on-premise big-data cloud environment, enabling analytic stations to perform analytic jobs. * Write ETL jobs to handle unstructured data. * Product owner for Software Pipeline Analytics project.   **Technologies:** Python, Ansible, Hadoop, Spark, Scrum | |
| 01.09.2016 - 31.12.2018 | **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. * Design and develop interfaces with other components in a secure and reliable manner. * Test and deploy the “Speech” middleware component.   **Technologies:** Linux, C++14, Boost, Python, SQLite, UML, Scrum | |
| 01.09.2014 - 31.08.2016 | **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.   **Technologies:** Linux, C++, Boost, gcc, SQLite, UML | |
| 01.10.2013 - 31.03.2014 | **Work Student at Siemens AG**  **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. | |
| 01.06.2012 - 30.09.2013 | **Research Assistant (HiWi) at Fortiss GmbH**  **Responsibilities:**   * Developing self-balancing “Smart Office” with different sensors and actuators including power storage devices.   **Technologies:** Linux, Java, GWT, MySql | |
| 01.09.2010 - 01.02.2012 | **Software Engineer at Samsung Bangladesh R&D Center Ltd.**  **Responsibilities:**   * Develop application on Samsung’s mobile development platform.   **Technology:** NXP, C | |
| **Training and Certification** | | |
| * **CSSLP – Certified Secure Software Lifecycle Professional** Certification exam due. * **Linux / UNIX system programming** Training from man7.org * **Secure Software Development with C++** Amadeus Training * **AWS Certified Solution Architect – Associate** Course from Linux Academy * **AWS Certified Security – Specialty** Course from Linux Academy | | |
| **Education** | | |
| 01.09.2014 | **Master of Science in Informatics**  Technische Universität München, München, Germany  **Specialization:** Software Engineering | |
| 01.10.2009 | **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, UML | |
| **C++ Libraries:** | C++14, Boost, Qt | |
| **Database:** | SQL Server, MySql, SQLite, Cassandra, DynamoDB, MongoDB | |
| **Big Data Tech:** | Apache Spark, Kafka, Numpy, Pandas, Matplotlib, Seaborn | |
| **Cloud Tech:** | AWS, OpenStack | |
| **Source Control:** | Git, SVN | |
| **PM tools:** | Scrum, Confluence, MS Threat Modeling Tool | |
| **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) | | |