

Curriculum vitae



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.

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- 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 patterns and principles, CI-CD

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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)