# Kalinga Bhusan Ray

M: +49 15163587450
E: mail.kalinga@gmail.com
LinkedIn  GitHub
Bergrat Mahr Strasse 10,
98693 Ilmenau,
Germany

## Experienced Software Engineer

Result-oriented professional with more than decade long experience in software development, Technical Architecture and customer consultation. Developing software solution, establishing Data Pipeline, Data Analysis, Agile Software development, DevOps, Deep Learning based Computer Vision task are some of my core technical competencies. Possess strong motivation towards learning German language and have completed B2. After finishing my Masters in Research in Computer System and Engineering (RCSE) from TU Ilmenau, currently I am looking for a challenging role to restart my full time career. In the past, I have worked for Robert Bosch Car Multimedia GmbH, Hildesheim and looking forward to work some more years in Germany.

## Functional Domain:

- Lambda architecture based IoT data processing
- Object identification and segmentation using Keras, Tensorflow, OpenCV
- Data collection, cleansing and ETL using SQL, python, Actian Vector
- Data analysis using Hadoop, Spark, scala and Python
- Support function for Database engine
- Car Multimedia Application development
- Service framework development (Using DSL)
- Media Player, Media Gallery, Webkit based web browser

## Technical Domain:

- Hadoop Ecosystem and tools: Ambari, Zookeepeer, HDFS, MR, Kafka, Spark and Spark-streaming, MongoDB etc.
- Machine Learning, Deep Learning, LSTM
- Data collection and ETL using python and Vector/Ingres
- Data analysis using python, Trend analysis of Actian product performance, Visualization using Microsoft Power BI
- Unit Test development using Python for Vector database engine
- Setting up various Database Benchmarking for Actian Vector product
- Writing queries using SQL and Actian/x100
- Object Oriented application and framework development using C, C++
- Domain Specific Language (DSL) development using Core Java, Xtend/Xtext
- Integration Test framework and test cases development using Python
- HMI Application development for Linux, Symbian, MeeGo devices using QT, QML, gtk, UIQ, S60
- TDD, Unit testing (JUnit, Google Test), Integration Testing
- Agile methodologies, Scrum, Planning & Estimation, CI(Git/Jenkins)
- vagrant, docker, puppet
- Sound knowledge of Android, PHP,HTML, CSS, XML, Java Script

## Key Responsibilities:

- Participation in the Sprint Planning (Agile) and Review
- Design (using UML) and Design review
- Coding(C, C++, Java, Python, PHP/Linux), code review, unit testing and documentation.
- Responsible for feature development of various product.
- Test Plan and Test Automation

## EXPERIENCE:

**Working Student**

| Incowia GmbH, Ilmenau | July'19-Till date |
|---|---|

**Working Student and Internship**

| Actian Germany GmbH, Ilmenau | Dec'17-Mar'19 |
|---|---|

**Specialist-Car Multimedia**

| Robert Bosch Engineering and Business Solutions, Bangalore | Dec'11-Sep'17 |
|---|---|

**Senior Software Engineer-R&D (Adaptxt)**

| Keypoint technology, Hyd | Mar'10-Dec'11 |
|---|---|

**Senior Software Engineer (Azingo Browser)**

| | |
|---|---|
| **Azingo Soft Systems India PVT LTD, Hyd** | **May'09-Mar'10** |

**Software Engineer- (Sasken Media Player)**

| | |
|---|---|
| **Sasken Communication Technologies, Bangalore** | **Dec'06-May'09** |

**MIS executive**

| | |
|---|---|
| **iSeva,E4E Pvt ltd,Bangalore** | **Apr'06-Dec'06** |

## PROJECTS:

**Recent Projects**

- Setup of IoT pipeline based on Lambda Architecture using Kafka, spark streaming and related technologies
- Trend analysis of Actian product performance with different Benchmarking suite
- Introduction of 'filtebystats' operator to pipefabric: a stream engine at TU Ilmenau
- Solving DataLake problem using VectorH (Actian product on Hadoop)
- Analysis of GDELT data using Apache Spark
- TF-IDF analysis of wikipedia data (given stop word data) and clustering
- Analysis of Geo-spatial data using GDELT and OpenStreetMap.org dataset using STARK framework

**Old Projects**

- Next generation service framework development (using Xtext and Xtend DSL development)
- Test Automation framework development using python,xsd, JSON etc..
- Java plug-in development: C++ code generation for service specific Stub and Proxy component (Code generation for DBus introspection xml) Automatic generation of C++ adapter facilitating Interface test of the services running in the target
- QT/QML based HMI and application development
- Webkit based browser UI and view development using gtk+
- Media Player and Media Gallery application development using S60 and UIQ symbian-UI framework

## CERTIFICATION:

**ISTQB Foundation Certification Examination**

| | | |
|---|---|---|
| **ISTQB** | **Certificate Id: Reg# 110964** | **21st Mar' 2017** |

**Python Certification Training**

| | | |
|---|---|---|
| **Edureka** | **Certificate Id: AYMLVT4A** | **Dec'16-Feb'17** |

**Symbian OS Essentials & Symbian C++**

| | |
|---|---|
| **Cranes Varsity, Cranes Software International Limited** | **Jan'07-May'07** |

## MASTER THESIS TOPIC:

Pedestrian trajectory prediction using Deep Neural Network: Thorough understanding of image classification, object detection with deep Convolutional Neural Network. Training, validating and testing deep neural network based model with keras-python. Working with large image data set (Caltech, JAAD) acquisition and processing and pipelining task.

## EDUCATION:

| | |
|---|---|
| **TU Ilmenau, Germany \| Master Research in Computer System and Engineering** | **2017-2019** |
| **ABIT Cuttack, Odisha \| BE Computer Science and Engineering (Bachelor)** | **2001-2005** |
| **Council of Higher Secondary Education, Orissa \| Higher Secondary Examination Certificate (Abitur)** | **1998-2000** |
| **Board of secondary Education, Orissa \| High school Certificate Examination (Klasse 10)** | **1997-1998** |

**DECLARATION**

I do hereby declare that the above information is true to the best of my knowledge.