**Abhilash Malleshappa Bhajantri**

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**SUMMARY**

Master of Science graduate at Hochschule Rhein-Waal in Information Engineering and Computer Science. Software Development Engineer with over all experience of 5 years in development and design of applications in Android and cross-platforms. Hands on experience in developing solutions for IoT environment using embedded systems and cloud integration. Detail oriented, dedicated and dependable team player who has strong analytical, problem solving skills with ability to manage multiple tasks and work in fast paced schedule. Looking for a job that will allow me to use the skills and years of expertise acquired.

**SKILLS**

**Programming Skills:**  Java, Android, C/C++, Kotlin, Python, MySQL, SQLite, MongoDB, JavaScript, ReactJS, Java Spring MVC, NodeJS, AngularJS, HML5/CSS, Typescript, Machine Learning with R, Docker

**Android Tools:** Android SDK and APIs, REST API, Design Patterns, MVC/MVP, Retrofit, RxJava, Junit,

**IoT Tools:** Wireless Sensor Networks, Temperature, Humidity, Gyroscope, Accelerometer, Pressure Sensors, MQTT, NodeRED, Grafana, InfluxDB, LoRaWAN, TTN, ThingSpeak

**Hardware:** STM32 (IoT Discovery Board), ESP32, SPI, I2C, UART, Arduino, Raspberry Pi, FreeRTOS

**Development Tools:** Android Studio, Eclipse, STM32CubeIDE, STM32CubeMX, Visual Studio Code, Linux and Windows OS, MATLAB, RStudio, IntelliJ Tools, SonarQube

**Version Control:** Git, GitHub, Bitbucket, Gitlab (CI-CD), SVN

**PROFESSIONAL EXPERIENCE**

**ADVANTECH EUROPE B.V, MUNICH, BAVARIA**

**Master Thesis Student** October 2019 – May 2020

Job Description

Research and Development of modular, dynamic and customizable low power sensor framework for IoT solutions. Architecture design in embedded C and using data structures. Leveraging STM32 IoT Discovery board as evaluation platform. Implementation of low power design.

**CODUCT GmbH, Kamp-Lintfort, Germany**

**Software Engineer (Werkstudent)** January 2019 – June 2019

Job Description

* Proficiency in developing Web applications using ReactJS framework. Implementation of generic user interface elements and publishing them as node module packages.
* Implementation of NodeJS back-end services, Knowledge of microservice architecture.
* Experience in deploying applications using Docker hosting on Azure cloud.

**75F SMART INNOVATIONS PVT LTD, BENGALURU, INDIA**

**Software Engineer** September 2017 – September 2018

Job Description

* Developing Android native applications (mobile/tablet) for automated lighting systems, to smart boiler controls, to energy efficient HVAC systems
* Designing application architecture, deployments on Google play store, managing user stories in JIRA.
* Restructuring existing code bases, Implementation of code conventions and unit test cases.
* Integrating application with Kinvey mBaas cloud services

**SONATA SOFTWARE PVT LTD, BENGALURU, INDIA**

**System Analyst** August 2014 – September 2017

Job Description

* Mobile/Tablet applications developer for reputed clients in travel and retail domain, architecture design and implementation of major functionalities such as design of re-usable components for applications, orientation supports for different screen resolutions
* Handle Web services consumption (REST API) for fetching content from web logic server
* Worked on developing Android SDK APIs for Halosys Middleware.
* Proficiency in debugging apps using ADB (Android Device Bridge) and logcat
* Active participation at all the stages of development life cycle

**REFERENCES**

Thomas Kastner  
*Director WP. SENSE Europe, Solutions Architect, Advantech Europe B. V.*  
Email: thomas.kastner@advantech.eu  
Phone: +49 (0)9621 9732 124

Prof. Dr.-Ing. Rolf Becker  
*Faculty of Communication and Environment, Hochschule Rhein-Waal*  
Email: rolf.becker@hochschule-rhein-waal.de  
Phone: 02842/90825294

**EDUCATION**

**HOCHSCHULE RHEIN-WAAL, KAMP-LINTFORT, GERMANY**

**Master’s in Information Engineering and Computer Science** October 2018 – August 2020

Key Courses

|  |  |
| --- | --- |
| * Mobile and Internet Computing | * Real-Time Embedded Systems |
| * Distributed Systems | * Data Mining and Data Analytics |

Projects

* Educational transcript classifier using OCR to extract PDF data, Implementation of NLTK based machine learning algorithms. Exposing via services using Python-flask based server application.
* Building Intrusion detection system using MPU6050 sensor on ESP32. Publishing data to TTN/ThingSpeak cloud via MQTT broker on Node-RED, Data visualization on Grafana.
* ReactJS based Online Barter System platform. Implementation of microservice architecture. Development of API gateway using NodeJS framework. Deploying application on Docker.

**THE NATIONAL INSTITUTE OF ENGINEERING, MYSORE, INDIA**

**Bachelor’s in Electronics and Communications Engineering** June 2010 – June 2014

Key Courses

|  |  |
| --- | --- |
| * Microcontrollers and Microprocessors | * Operating System |
| * ARM Processors | * Computer Network |
| * Data Structures and Algorithms using C++ | * Digital Signal Processing |

Projects

* Comparative analysis of medical images enhanced with adaptive contract diffusion and other algorithms
* FM signal jammer module
* Collisions detection robot with IR sensor

**LANGUAGES**

|  |  |
| --- | --- |
| * **German**: Basic (A1) | * **English:** Fluent |
| * **Hindi:** Fluent | * **Kannada:** Mother Tongue |

**HOBBIES AND INTERESTS**

|  |  |  |  |
| --- | --- | --- | --- |
| * Gaming | * Music | * Hiking | * Football |