



Rajib Chandra Das

Date of birth: 04/10/1992 | **Nationality:** Bangladeshi | **Gender:** Male |
(+49) 17636368708 | aporba.das@gmail.com |
Niemannsweg 152, 24105, Kiel, Germany

WORK EXPERIENCE

01/07/2019 – CURRENT – Kiel, Germany

SOFTWARE DEVELOPER (PART TIME) – WOBE-SYSTEMS GMBH

- Working as Full-Stack Developer
- Develop and Maintain back-end functionalities. [Languages: **Python, Go** and **Javascript**]
- Design front-end features. [Frameworks: **VueJS, ExpressJS**]
- Implement APIs according to functionalities. [Services: **GraphQL, REST**]
- Write Queries for Database/storage. [**MongoDB**]
- Write Unit Tests.
- Overall, As a **MEVN** stack developer I optimized a lot of functionalities and improved Customer satisfaction.

01/04/2019 – 31/03/2020 – Kiel, Germany

TEACHING ASSISTANT – THE UNIVERSITY OF KIEL

- Concurrent Programming(Java): Thread Synchronizations, RMI, Concurrent Transactions etc.
- Functional Programming(Haskell): Type signatures, List Comprehensions, Pattern matching, Control Structures, Higher-order functions, Lambdas, IO Actions etc
- Logic Programming(Prolog): Logic Puzzles, Unification Grammar, SLD-Resolution etc

01/10/2015 – 30/09/2018 – Dhaka, Bangladesh

SOFTWARE ENGINEER – IPVISION CANADA INC

- Work with raw audio, image and video data like **RGB24, RGB32, YUV-I420, YUV-NV12, YUV-NV21, B MP, PCM, PNG, BMP**.
- Work with encoder and decoder like **H.264, G.729, Opus**.
- Cross platform solution for real time video data processing like **conversion, resize, beautify, encode, decode, packetize, depacketize** etc.
- Use **Jenkins, OwnCloud** to manage automated build system.
- Raw **assembly** for **arm32** and **arm64** platform with NEON extension.

01/05/2014 – 30/09/2015 – Dhaka, Bangladesh

SOFTWARE ENGINEER – EYEBALL NETWORKS

- Integrated **ffmpeg** framework. Expert on ffmpeg commands for **broadcasting, transcoding**, converting video formats.
- Integrated **OpenH264** Encoder & Decoder based on standard protocol. RTP payload construction follows **rfc6184**.
- Integrated **VP8** Encoder & Decoder based on rfc6386.
- Integrated **MS-RTP** Protocol to communicate with Lync 2013.
- Converted SDP (Session Description Protocol) while **SIP** to **WebRTC** audio/video call and vice versa.
- Implemented Active mode and Passive mode DTLS-Negotiation Process for WebRTC audio/video call.
- Analyzed video data enabling CABAC feature in OpenH264 Encoder.
- Added Google Test Framework for unit testing. It is able to find crashes and bugs and saves a lot of time.
- Created Patch files to remove or add GTest Framework for AnyConnectGateway. Used bash scripting language to perform this task. It works in Linux platforms.
- Worked with SIP and XMPP server applications. Fixed bugs and memory leaks.

● EDUCATION AND TRAINING

01/10/2018 – Germany

MASTER IN COMPUTER SCIENCE – Christian-Albrecht University of Kiel

01/02/2010 – 28/02/2014 – Bangladesh

BACHELOR IN COMPUTER SCIENCE – Shahjalal University of Science and Technology

Thesis: Ranking the Locations and Predicting Future Crime Occurrence by Retrieving News from Different Bangla Online Newspapers.

CGPA - 3.52 out of 4.00

● SELF DEVELOPMENT

Programming Activity

Honorable Place in ICPC Dhaka Regional Contest, 2013 (Team: **SUST_Unreal**).

Honorable Place in SUST SIUPC, 2011 (Team: **SUST_Untitled**).

Green Coder in Codeforces (Current Rating: 1407, ID: **RajibTheKing**).

Green Coder in Topcoder (Current Rating: 956, ID: **RajibTheKing**).

Solved more than 1000 algorithmic problems on UVA, TJU, LightOJ, Leetcode.