Rajib Chandra Das

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WORK EXPERIENCE

30/06/2019 – CURRENT – Kiel, Germany
SOFTWARE DEVELOPER (PART TIME) – WOBE-SYSTEMS GMBH

- Working as Full-Stack Developer
- Develop and Maintain back-end functionalities.
- Design front-end features.
- Implement APIs according to functionalities.
- Write Queries for Database/storage.
- Write Unit Tests.
- Overall, As a **MEVN** stack developer I optimized a lot of functionalities and improved Customer satisfaction.

Skills: **JavaScript, TypeScript, Python, Go, Node.js. Express.js, Vue.js, Vuetify, GraphQL, REST, MongoDB, PostgreSQL, MySQL, HTML, CSS, Git, Docker, Microservice, Prisma(ORM)** etc.

31/03/2019 – 30/03/2020 – 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

30/09/2015 – 29/09/2018 – Dhaka, Bangladesh
SOFTWARE ENGINEER – IPVISION CANADA INC

- Work with raw audio, image and video data like **RGB24**, **RGB32**, **YUV-I420**, **YUV-NV12**, **YUV-NV21**, **BMP**, **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.

Skills: **C, C++, Java, Objective-C, Android Development, Android Studio, iOS Development, XCode, Jenkins, Owncloud, FFMPEG, VideoCodec, AudioCodec**.

30/04/2014 – 29/09/2015 – 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.

Skills: **C, C++, SIP, WebRTC, MS-RTP, VP8, H264, VoIP, TCP/IP, GTest**.

EDUCATION AND TRAINING

30/09/2018 – Germany
MASTER IN COMPUTER SCIENCE – Christian-Albrecht University of Kiel

31/01/2010 – 27/02/2014 – 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.