Tonberg 6 24113 Kiel, Germany

RAJIB CHANDRA DAS

Email: aporba.das@gmail.com Cell: +49 017636368708

Github: https://github.com/RajibTheKing

WORK EXPERIENCE

Software Engineer C++

Smartclip Europe GmbH (Hamburg)

October 2022 - May 2024

- experienced with **Digital Advertising** solution that handles 1.9 billion requests per day.
- implemented stricmp(case-insensitive string comparison) using assembly x86_64 with SSE4.2 instructions, which
 outperforms currently available solution https://linux.die.net/man/3/strncasecmp, resulting 20% faster execution.
- · generated graphs for comparing and visualizing different implementations for benchmarking
- experienced in monitoring tools i.e. **Prometheus, Grafana, Greylog**.

Full Stack Developer (Part time)

Wobe-Systems GmbH (Kiel)

July 2019 - September 2022

- played a key role in design, development and improvement of web-based applications.
- worked with 4 different highly functional web applications, implemented 50+ features.
- implemented 100+ APIs(REST, GraphQL) interacting with databases i.e. PostgreSQL, MongoDB.
- worked with various industry-adopted technologies and frameworks i.e. Bootstrap, Flask, jQuery, Prisma etc

Software Engineer

IPVision Canada Inc. (Dhaka)

October 2015 - September 2018

- worked with Social Network solution, currently reached 5 million downloads (https://bit.ly/4aJc9Rq).
- designed and implemented Cross-Platform SDK for audio and video data processing.
- worked with conversion, mirroring, rotating, scaling, cropping for different raw audio, image and video data like RGB24, RGB32, YUV-I420, YUV-NV12, YUV-NV21, YUY2, BMP, PCM, PNG.
- worked with encoder and decoder like H.264, G.729, Opus.
- optimized solutions using raw assembly for arm32 and arm64 platform, resulting 16 times faster execution time.

Software Engineer

Eyeball Networks (Dhaka)

May 2014 - September 2015

- designed and implemented real time transcoding server for video data i.e. H264 and VP8
- implemented signaling for audio/video call among SIP and WebRTC client.
- integrated OpenH264 Encoder & Decoder based on standard protocol, RTP payload construction follows rfc6184.
- integrated VP8 Encoder & Decoder based on rfc6386.

EDUCATION

- Masters in Computer Science
 - > University: Christian-Albrechts-Universität zu Kiel, Germany
 - > Thesis: Feature extraction from unstructured clinical notes A comparison of pretrained models.
 - > Final Grade: 2.0
 - Year of Passing: 2025
- Bachelor in Computer Science and Engineering
 - University: Shahjalal University of Science and Technology, Sylhet, Bangladesh
 - Thesis: Ranking the Locations and Predicting Future Crime Occurrence by Retrieving News from Different Bangla Online Newspapers.
 - > Final Grade: 1.7
 - Year of Passing: 2014

SKILLS

- Programming Language: C++, Python, Java, JavaScript, TypeScript, HTML, CSS, Assembly, Go, Objective-C, C#.
- Tools: Git, Jira, Jenkins, Prometheus, Grafana, Graylog, Google Test, Valgrind, Prisma, Protocol Buffer.
- Web Development: Node.js, Express.js, Vue.js, React.js.
- Frameworks and Libraries: STL, BOOST, TensorFlow, PyTorch, Keras, NumPy, Pandas, Scikit-Learn, Matplotlib, SpaCy, Stanza, Tkinter, Flask, FastAPI, Bottle.
- Database: MySQL, PostgreSQL and MongoDB.
- Operating System: Linux (Ubuntu), Linux (CentOS), MacOS, Windows.
- Containerization: Docker, Kubernetes.
- Networking and Communication: SIP, WebRTC, Socket Programming, IPC, MS-RTP, VoIP, TCP, UDP.
- API: REST, GraphQL.
- AI: NLP (Tokenization, Text Processing, Feature Extraction, NER), Transformer (BERT, RoBERTa).