+8801554784852 github.com/Luniam

EDUCATION

BRAC University, Dhaka, BD - B.Sc. in CSE

JAN 2014 - APR 2018

 Notable courses: Algorithms, Data Structures, Artificial Intelligence, Automata, Compilers, Operating Systems, Database Systems, Computer Graphics etc.

WORK EXPERIENCE

IOT Team Lead, Inovace Technologies

JAN 2021 - Current

- Lead an IOT team of electrical and computer engineers.
- Lead new research and development of existing and new IOT products.

Software Engineer, Inovace Technologies

APR 2018 - JAN 2021

- Developed REST APIs and front-end applications for multiple projects ranging from human resources management software to IOT device communication server.
- Worked with the R&D team to improve IOT device efficiency, e.g. using MQTT instead of HTTP as the communication protocol, implementing OTA firmware update feature.

SELECTED PROJECTS

IOT Device Communication Server

Laravel, VUE JS

- Architectured a complete redesign of the log processing code. Log processing went from ≈2 seconds to ≈100 milliseconds.
- Scaled to handle ≈7000 concurrent biometric IOT devices.
- Implemented an in-memory cache mechanism in place of a DB operation on a table with ≈ 20 million rows. Made it ≈98% faster with ≈3% more memory consumption.

Industrial OEE Monitoring Server

Laravel, VUE JS

- Was part of the design and development team of a large scale industrial OEE monitoring application.
- Managed the partitioning of the time series tables in the database for high scalability and faster reporting.

MQTT Server Spring Boot

- Designed and implemented a device communication server based on the MQTT protocol.
- Handles ≈500 concurrent biometric attendance devices.

Kafka Consumer Application

Spring Boot

• Took part in the design and development of a web server that listens to multiple kafka topics on databases spread in multiple servers, which then prepares ETL tables from the data.

Interactive Algorithms Website

JavaScript, JQuery, D3 JS

 Built an interactive website(personal project) where students can learn about common data structures and algorithms through animations. Website still in progress. <u>URL</u>

LANGUAGES AND TECHNOLOGIES EXPERIENCE

- Languages and Frameworks: PHP, Java, Python, Spring Boot, Laravel, Angular JS, VUE JS
- Database and Data Processing: MySQL, PostgreSQL, Apache Kafka, VerneMQ, Eclipse Mosquitto
- Scientific Computing: MATLAB, NumPy, SciPy, Matplotlib
- CI Tools: Jenkins
- Others: Redis, Docker, Nginx

EXTRACURRICULAR ACTIVITY

Former amateur boxer at the Bangladesh Amateur Boxing Federation.