K.H.M. BURHAN UDDIN

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Full stack software engineer and a continuous learner who loves to work on the edges of the latest technologies. Founding senior SWE at a high-growth AI startup. Experienced in developing enterprise java applications and ETL data pipelines from scratch. Worked with AWS cloud technologies and developed highly scalable microservices.

Experiences

Goava AB, Sweden   May 2017 – December 2021
Senior Software Engineer (Data Engineering)   *Dhaka, Bangladesh*

- **Data pipeline:** Developed petabyte scale ETL pipeline for crawling and storing data from millions of sources. Designed architecture from scratch and led the project development (with 3 SWEs), served 1K customers within 6 months that helped the company secure EU grants.
- **Cloud crawler:** Developed distributed crawler to crawl ten million websites every day.
- **Machine learning:** Deployed RNN/LSTM-based deep learning news classifier and NER model in AWS.
- **ElasticSearch cluster:** Developed and maintained the architecture for searching and indexing terabytes of data.
- **AWS cost optimization:** Reduced AWS Cloud billing by about 50% by introducing batch data processing.
- **Recomendation system:** Launched Goava Discover, a petabyte-scale recommender service for B2B sales.
- **Microservice and API development:** Created scalable microservices and REST APIs for data pipeline.
- **Admin portal:** Developed the full stack admin portal for automation of sales team using spring boot and react.
- **Tech Stack:** AWS, Deep Learning, ElasticSearch, Java, Python, Spring Boot, Microservices, GraphQL

Nilavo Technologies Limited (Biscom Inc., Boston, U.S.A.)   April 2011 – April 2017
Software Engineer (Full Stack)   *Dhaka, Bangladesh*

- **Major technology upgrade in enterprise application:** Developed multi-threaded file upload/download library to transfer files larger than 100+gb replacing the old java applet-based non-resumable transfer system.
- **Introduced resumable file transfer in encrypted data:** Implemented file download pause/resume support for encrypted files by implementing random access in the java input stream by using block-by-block AES decryption.
- **High availability file system design:** Created a hierarchical file system using SQL and java to support high availability. Developed complete file system tree explorer user interface from scratch using AngularJS.
- **Large file compression:** Implemented GZ file compression in java to compress large files in the server.
- **Audit logging:** Developed architecture of the module with log versioning support using reflection design pattern.
- **Security layer architecture:** Added proper permission check and validation in business logic using template pattern.
- **Tech Stack:** Spring, Struts, Java, JavaEE, Hibernate, JPA, JavaScript, AngularJS, Maven, MySQL, Postgres, REST

Technical Skills

- Java, Python, JavaScript, NodeJS, SQL, C#
- RDBMS(MySQL, Postgres, MSSQL), NOSQL(MongoDB, DynamoDB)
- Algorithms and Data Structures, Design Patterns, OOP, Event-Driven Architecture
- AWS, Spring Boot, Hibernate, ElasticSearch, Microservices, CQRS, Redis, Hadoop
- Deep learning, PyTorch, NumPy, Pandas, Tensorflow, Jupyter
- Rest API, GraphQL, gRPC, Web Services
- React, AngularJS, HTML, CSS
- Docker, Git, Linux, Bash, CI-CD, Jenkins

Education

Shahjalal University of Science and Technology   2006 – 2011
Bachelor of Science (Engineering) in Computer Science and Engineering   *Sylhet, Bangladesh*

Certifications

Deep Learning Nanodegree   May 2022
Udacity

Scalability & System Design for Developers   May 2022
Educative