

# Md. Mohib Hossain

+8801521429884 — mohib18169@gmail.com — Mohib Hossain — mohib181

**Summary** — I am a dedicated professional with a strong interest in expanding my skills across various fields. Currently, I am working as a Software Development Engineer 2 at IQVIA, with two years of hands-on experience in cloud data warehouses and ETL pipelines. I am eager to continue learning and applying my expertise in new and diverse contexts.

## Work Experience

- IQVIA** May 2022 – Present  
*Software Development Engineer 2* Jan 2024 – Present
- Designed and developed ETL scripts for client databases.
  - Designed and developed automation process for ETL pipelines in DataIKU.
  - Developed POC (Proof of Concept) databases and KPI dashboards for client demonstration.
- Software Developer* May 2022 – Jan 2024
- Maintained dev/qa databases for development and POC purposes.
  - Maintained user permissions and policies for development databases.
  - Maintained documentation for database structure and user provisioning.

## Research Experience

- Enhancing Automated Program Repair through Fine-tuning and Prompt Engineering** arXiv  
*Machine Learning, Prompt Engineering, Software Engineering*
- Undergraduate thesis project under supervision of Prof Dr. Anindya Iqbal.
  - We fine-tuned two state of the art language model PLBART and CodeT5 and compared their performance on program repair capability for a dataset with the code review given in Natural Language.
  - We further compared performance of two generative language model Codex and GPT-3.5-Turbo using zero-shot and few-shots learning-based prompt engineering on the same dataset.

## Education

- Bangladesh University of Engineering and Technology** Feb 2017 – May 2022  
*Bachelor of Science in Computer Science and Engineering, CGPA:3.59/4.00*

## Technical Skills

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|---|--|
| <b>Languages</b> SQL, Python, C/C++, Java, Javascript, Bash | <b>Library</b> NumPy, Pandas, PyTorch, Matplotlib    |
| <b>Database</b> SQL Server, PostgreSQL, Oracle              | <b>Frameworks</b> JavaFX, Node.js, Angular           |
| <b>Cloud</b> AWS, S3, Snowflake, Firebolt                   | <b>Miscellaneous</b> Git, $\text{\LaTeX}$ , Overleaf |

## Academic Projects

- Ride Sharing App - Take ME** GitHub  
*NodeJS, MongoDB, Android Studio*
- Implemented a back-end server system to simulate a ride sharing app.
  - Implemented logic for ride matching, price calculation and other basic features.
  - Implemented API calls to communicate effectively with the Front-end mobile application.
- Ray-Tracing** GitHub  
*C/C++, OpenGL*
- Implemented basic ray tracing logic with OpenGL and C/C++ with multiple objects like sphere, cubes and with multiple colors.
- TCP Reset Attack on Video Streaming Service** GitHub  
*C++*
- Implemented TCP Reset Attack using ARP Spoofing and RST Packet Spoofing technique.
  - The tool is written in C++ and built using libtins library.
- AES Simulation** GitHub  
*Python*
- Implemented Advanced Encryption System using different key lengths of 128, 192, and 256.
- Line of Action** GitHub  
*Java, JavaFX*
- Implemented Adversarial Search in a Line of Action Game.
  - Implemented game interface using JavaFX.