

# MD THORIQUEL ISLAM THONMAY

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## OBJECTIVE

Computer Science student skilled in OOP, Data Structures, and Algorithms. Proficient in **C**, **C++**, and **Java**, with strong problem-solving, teamwork, and communication skills.

## EDUCATION

**Eötvös Loránd University**

*BSc in Computer Science*

Budapest, Hungary

*Sep. 2023 – Jan. 2027*

- Relevant Coursework: **Object-Oriented Programming**, **Data Structures and Algorithms**, **Operating Systems**, Web Programming, **Database Management Systems**, Discrete Mathematics.

## EXPERIENCE

**Demonstrator of Discrete Mathematics**

*Eötvös Loránd University*

Feb. 2025 – Present

*Budapest, Hungary*

- Mentored students in solving logical and algorithmic problems, strengthening analytical and problem-solving skills.
- Developed a **Chatbot** prototype to assist students with queries.
- Collaborated with faculty to enhance course materials and student engagement.

**Event Management Team**

*Google Developers Group (GDG) ELTE*

Oct. 2024 – June 2025

*Budapest, Hungary*

- Worked in a 7-member team to plan and execute technical workshops, demonstrating strong teamwork and communication.

## PROJECTS

**Occupancy Grid Mapping** | *C++*, *CMake*, *YAML*

Aug. 2025

- Developed a 2D occupancy grid mapping application in C++17 using ultrasonic/odometry sensor data.
- Implemented a **probabilistic mapping** algorithm with **log-odds** representation and multi-beam raycasting for noise-resistant maps. (GitHub)

**Multi-Client TCP Chat Application** | *C++*, *Boost.Asio*, *Multithreading*, *CMake*

Aug. 2025

- Implemented a **multithreaded** TCP server handling multiple clients **concurrently** with robust connection management.
- Built cross-platform **asynchronous I/O** using **Boost.Asio** for efficient networking.
- Designed maintainable C++ codebase with **CMake** and version control. (GitHub)

## SKILLS

**Languages:** **C++**, **Java**, **C**, **SQL**, Python, JavaScript, C#, Shell Scripting (Bash)

**Frameworks & Libraries:** Spring Boot, Boost.Asio, **QT**, **C++ STL**

**Developer Tools:** Git, GitHub, CMake, Docker, Linux, Jenkins (CI/CD), Agile (SCRUM)

## LANGUAGES

Bengali: Native | **English:** Proficient | Hungarian: Basic | German: Basic