



## Mohammed Efaz

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**Gender:** Male **Date of birth:** 06/03/2003 **Nationality:** Bangladeshi

### ABOUT MYSELF

Motivated Computer Science graduate (B.Sc., Eötvös Loránd University, CGPA 4.49/5) with demonstrated experience in AI/ML research, on-device LLM systems, hybrid RAG architectures, and production software engineering (~1 year of internship experience at Genesys). First author of a research paper submitted to ICCCI 2026, Springer LNAI (under review). Active contributor to a 1M+ user open source reading platform. Seeking to contribute in software engineering, AI, Machine Learning and most importantly, to open source solutions for all.

### WORK EXPERIENCE

#### *Genesys*

**City:** Budapest | **Country:** Hungary

[ 23/09/2024 - 15/01/2025 ]

#### **Software Engineer Intern**

- Delivered **100% code coverage** in the Journey Management codebase
- Implemented **5+ novel algorithms** and streamlined business logic to enhance performance and efficiency
- Resolved **20+ bugs, 7+ Angular/Vue tickets**, and implemented **10+ Cypress tests**

#### *Genesys*

**City:** Budapest | **Country:** Hungary

[ 18/03/2024 - 22/08/2024 ]

#### **QA Test Automation Engineer Intern**

- Automated E2E tests Playwright/Cypress for in Angular/Vue, resolving **22+ cases** to enhance UX
- Improved **CI/CD efficiency** via TDD, validating features like login, events, rendering with mock data
- Ensured **daily FedRAMP** compliance, strictly maintaining high security and operational standards

#### *Eötvös Loránd University*

**City:** Budapest | **Country:** Hungary

[ 09/09/2024 - 15/07/2025 ]

#### **University teaching assistant**

- Mentored 20+ first-year international Computer Science students in programming fundamentals and university adaptation
- Supported faculty by leading lab sessions covering foundational coding concepts and academic orientation

### EDUCATION & TRAINING

[ 01/09/2022 - 15/07/2025 ]

## Bachelor of Science in Computer Science

### *Eötvös Loránd University*

**City:** Budapest | **Country:** Hungary | **Final grade:** 4.49 | **Level in EQF:** 6 | **Thesis:** Intelligent Offline-First eBook Reader

- Final examination result: 5/5 (Excellent)
- Funded by Stipendium Hungaricum (fully funded B.Sc. Hungarian Government scholarship awarded on academic merit to international students)

[ 29/09/2021 ]

## International A Level (IAL)

### *Pearson Edexcel / Mastermind English Medium School*

**City:** Dhaka | **Country:** Bangladesh | **Final grade:** 3A\* 1A | **Level in EQF:** 4

[ 20/09/2019 ]

## International General Certificate Of Secondary Education (IGCSE)

### *Pearson Edexcel / Mastermind English Medium School*

**City:** Dhaka Bangladesh | **Country:** Bangladesh | **Final grade:** 7A\* 1A | **Level in EQF:** 3

## RESEARCH & PUBLICATION

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### **MeReader: An Offline, Privacy-Preserving, Progress-Aware AI Assistant for Narrative eBook Reading**

*Mohammed Efaz, Itilekha Podder, Udo Bub - Faculty of Informatics, ELTE*

*Submitted to ICCCI 2026 (18th International Conference on Computational Collective Intelligence), Springer LNAI Series, Track: LLM & VLM in Collective Intelligence - Under Review*

*Code: [github.com/WhiteHades/mereader](https://github.com/WhiteHades/mereader)*

- Designed an **offline, progress-aware** AI reading assistant that prevents spoilers by restricting retrieval and generation to the reader's current position in the book.
- Engineered a **hybrid multi-modal RAG pipeline**: parallel vector similarity (Qdrant, nomic-embed-text, 768-dim), BM25 keyword search, summary embeddings, and LLM-driven query expansion - fused via weighted score normalization
- Evaluated the system on **600 queries** across three novels; mid-sized local models achieved about 0.74-0.75 BERTScore F1 with around 30s latency

## OPEN SOURCE CONTRIBUTION

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### **Readest - Cross Platform eBook Reader**

*Dec 2025 - Present | 18,200+ GitHub stars | 1M+ users | [Contribution Links](#)*

- **Built page-aware AI reading assistant**: supports both on-device/local LLMs (Ollama) and cloud LLMs (OpenAI, etc.) with per-page context scoping
- **Implemented X-Ray feature** (Kindle style): Using AI powered (via Vercel AI SDK) features like character profiles, timeline tracking, entity graphs, and relationship maps - all bounded by the reader's current progress to prevent spoilers. Directly applies the same progress-aware NLP logic from MeReader research

### **MeTLDR - On-Device AI Browser Extension**

*Jan 2025 - Present | [Chrome Store Link](#) | [github.com/WhiteHades/metldr](https://github.com/WhiteHades/metldr)*

A free, privacy first browser extension running AI entirely on-device (no cloud) using Chrome AI/Ollama: summarizes Gmail threads, web pages, and PDFs; includes side panel chat, global search across summaries, and dictionary lookup.

## HONOURS AND AWARDS

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- [ 30/03/2023 ] **2nd Place, Cassini Hackathon Hungary** Awarding institution: European Union Agency for the Space Programme (EUSPA) and Design Terminal Powered by Civitta
- [ 01/09/2022 ] **Stipendium Hungaricum** Awarding institution: Tempus Public Foundation
- [ 01/01/2019 ] **Gold Award Finalist, Queen's Commonwealth Essay Competition 2019** Awarding institution: The Royal Commonwealth Society

## CERTIFICATIONS

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- [ 27/01/2025 ] **TOEFL iBT - 100**
- [ 30/03/2025 ] **Google Cybersecurity Specialization**  
<https://coursera.org/share/c9b61ab9b5eb61b837858d386bc2e9b1>
- [ 08/10/2024 ] **Stanford University Machine Learning Specialization**  
<https://coursera.org/share/3d62ee72635c7c4c96a045fe33d10f42>

## SKILLS

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### AI & Machine Learning

Machine Learning | Deep Learning | On-Device LLM inference | NLP | RAG | Vector Database | PyTorch | JAX | NumPy | Llama cpp

### Programming Languages

Python | TypeScript | JavaScript | C++ | Go | Rust

### Framework & Tools

Vue.js | Angular | React | FastAPI | RestAPI | SQLite | Tauri

### Infrastructure & DevOps

Docker | AWS | CI/CD | Linux | Cybersecurity

## LANGUAGE SKILLS

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**Mother tongue(s):** Bengali

**Other language(s):**

**English**

**LISTENING: C2 READING: C2 WRITING: C2**

**SPOKEN PRODUCTION: C2 SPOKEN INTERACTION: C2**

**Italian**

**LISTENING: A1 READING: A1 WRITING: A1**

**SPOKEN PRODUCTION: A1 SPOKEN INTERACTION: A1**