



Mohammed Efaz

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ORCID iD
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ABOUT MYSELF

Computer Science graduate (B.Sc., Eötvös Loránd University, CGPA 4.49/5) and Research Assistant at ELITE Research Lab LLC. Experience in AI/ML research, production software engineering, quality assurance, automation, research writing and teaching. Evaluated 10 local language models across 600 benchmark cases and contributed to open source software through remote collaboration.

Research interests: agentic systems, local AI, GPU inference with CUDA, and low-level AI systems in Rust, C and C++.

WORK EXPERIENCE

ELITE Research Lab LLC

Research Assistant

01/09/2026 - Present

Research Intern

01/06/2026 - 31/08/2026

- Review AI literature, compare evidence and submit weekly progress reports on time.

Genesys Budapest, Hungary

Software Engineer Intern

23/09/2024 - 15/01/2025

- Delivered **100% code coverage** in the Journey Management codebase; implemented **5+ new algorithms** and streamlined business logic for performance and efficiency.
- Resolved **20+ bugs** and **7+ Angular/Vue tickets**; implemented **10+ Cypress tests**.

Genesys Budapest, Hungary

QA Test Automation Engineer Intern

18/03/2024 - 22/08/2024

- Automated Angular/Vue E2E tests with Playwright/Cypress; resolved **22+ cases**.
- Improved UX and CI/CD with TDD; validated login, events and charts with mock data; maintained daily FedRAMP compliance, security and operational standards.

Eötvös Loránd University Budapest, Hungary

University teaching assistant

09/09/2024 - 15/07/2025

- Mentored **20+ first-year international CS students** in programming and university adaptation; supported faculty with coding labs and academic orientation.

EDUCATION & TRAINING

01/09/2022 - 15/07/2025 Budapest, Hungary

Bachelor of Science in Computer Science Eötvös Loránd University

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

Final grade: 4.49 | **Level in EQF:** EQF level 6 | **Thesis:** Intelligent Offline-First eBook Reader

29/09/2021 Dhaka, Bangladesh

International A Level (IAL) Pearson Edexcel / Mastermind English Medium School

Final grade: 3A* 1A | **Level in EQF:** EQF level 4

20/09/2019 Dhaka, Bangladesh

International General Certificate Of Secondary Education (IGCSE) Pearson Edexcel / Mastermind English Medium School

Final grade: 7A* 1A | **Level in EQF:** EQF level 3

RESEARCH & PUBLICATION

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

Mohammed Efaz (first author), Udo Bub, Itilekha Podder - Faculty of Informatics, ELTE

Published online 18 September 2026 in Springer CCIS,

DOI: https://doi.org/10.1007/978-3-032-37936-8_22

Code: github.com/WhiteHades/mereader

- Built an offline AI assistant that prevents spoilers by limiting retrieval and generation to the reader's current position in the book.

- Engineered hybrid RAG with parallel vector similarity (Qdrant, nomic-embed-text, 768 dimensions), BM25 search, summary embeddings and LLM query expansion, fused through weighted score normalization.
- Evaluated **600 cases across 10 local models and three English novels**: 300 comprehension cases against reference answers and 300 spoiler scenarios using reading limits and forbidden facts. Scored comprehension with BERTScore and used an LLM-as-judge rubric for output quality, including relevance, coherence and instruction following.
- Mid-sized local models achieved about **0.74-0.75 BERTScore F1** with around **30-second latency**.

OPEN SOURCE CONTRIBUTION

Readest - Cross Platform eBook Reader

Dec 2025 - Present | Reported May 2026: 18,200+ GitHub stars; 1M+ users | [Contribution Links](#)

- Developed a **page-aware AI assistant** for local (Ollama) and cloud (OpenAI) models with per-page context.
- Developed **Kindle-style X-Ray** with Vercel AI SDK: character profiles, timelines, entity graphs and relationship maps, bounded by reading progress to prevent spoilers using MeReader's NLP logic.
- Contributed full-text search and custom keyboard shortcuts through GitHub pull requests; addressed reviewer feedback, documented fixes and resolved edge cases through remote collaboration.

MeTLDR - On-Device AI Browser Extension

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

Built a free, private browser extension using Chrome AI/Ollama entirely on-device. Summarizes Gmail threads, web pages and PDFs; includes side-panel chat, global search across summaries and dictionary lookup.

HONOURS AND AWARDS

2nd Place, Cassini Hackathon Hungary

30/03/2023 | European Union Agency for the Space Programme (EUSPA) and Design Terminal, powered by Civitta

Stipendium Hungaricum

01/09/2022 | Tempus Public Foundation

Gold Award Finalist, Queen's Commonwealth Essay Competition 2019

01/01/2019 | The Royal Commonwealth Society

CERTIFICATIONS

DeepLearning AI PyTorch for Deep Learning Specialization

28/07/2026 | Coursera | [Certificate 3BFVG0ZZSQQQ](#)

Courses: PyTorch: Fundamentals; PyTorch: Techniques and Ecosystem Tools; PyTorch: Advanced Architectures and Deployment

TOEFL iBT - 100/120

11/01/2025 | Reading 30/30 | Writing 26/30 | Speaking 22/30 | Listening 22/30

Google Cybersecurity Specialization

30/03/2025 | coursera.org/share/c9b61ab9b5eb61b837858d386bc2e9b1

Stanford University Machine Learning Specialization

08/10/2024 | coursera.org/share/3d62ee72635c7c4c96a045fe33d10f42

SKILLS

AI & MACHINE LEARNING

AI output evaluation | BERTScore | LLM-as-judge | Reference-answer comparison | Machine Learning | Deep Learning | On-device LLM inference | NLP | RAG | Vector Databases | PyTorch | JAX | NumPy | llama.cpp

AI CODING & WORKFLOWS

OpenCode | Codex | Claude Code | MCP integrations | Prompt engineering

PROGRAMMING LANGUAGES

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

FRAMEWORKS & TOOLS

Vue.js | Angular | React | FastAPI | REST APIs | SQLite | Tauri | Playwright | Cypress | GitHub | Jira | Neovim

INFRASTRUCTURE & DEVOPS

Docker | AWS | CI/CD | Linux | Cybersecurity | Terminal workflows | Bash/Zsh | tmux

RESEARCH & PUBLICATION

Literature review | Research writing | Critical thinking | Attention to detail | Written and verbal English | Structured feedback | Google Scholar | JSTOR | LibGen | Microsoft Word, PowerPoint and Excel | Mendeley | Zotero | EndNote | R | IBM SPSS Statistics 25