



Mustafah Rahimi *(B.Sc. in Computer Engineering)*
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Links: Website , LinkedIn , GitHub

PROFILE

Solving complex problems through technology is not merely work for me; it is a driving motivation. I dedicate both time and careful attention to my work, recognizing the significant impact that well-designed and thoughtful solutions can achieve. I feel most engaged in environments where curiosity, collaboration, and innovation shape processes and outcomes. In such settings, I can refine my problem-solving skills while contributing to projects that generate meaningful impact for both individuals and organizations.

WORK EXPERIENCE

Thesis Project, Tietoevry, Karlstad

jan 2025 — jul 2025

- Developed and implemented **QC-LDPC** coding algorithms **using C++, CUDA, and MATLAB**.
- QC-LDPC:** A method that makes sending digital data faster and more reliable by fixing errors automatically.
- Explored optimization and parallelization of the algorithm on an **NVIDIA GPU** to reduce coding latency and enable the decoder to detect transmission errors efficiently.
- Result:** Achieved approximately **98%** faster coding for large message sizes through **GPU acceleration**.
- Gained experience in high-performance programming, GPU acceleration, algorithm optimization, and performance analysis within 5G systems.

Digital Coordinator, KAAJ Association, Karlstad

aug 2024 — Present

- Responsible for system maintenance, reporting, technical support, and website management.
- Developing digital systems to organize internal information flow and administration.

Student Tutor, Karlstad University

aug 2023 — nov 2023

- Planned and led mathematics lessons, explaining complex concepts in a clear and structured manner.
- Guided and motivated students in problem-solving activities.

Support Assistant, Social Psychiatry, Hagfors Municipality

mar 2023 — jul 2025

- Organized daily activities and routines.
- Conducted documentation, prioritization, and problem-solving in daily tasks.
- Developed skills in methodical work, attention to detail, and teamwork.

EDUCATION

B.Sc. in Computer Engineering – Karlstad University, Karlstad

aug 2022 — jun 2025

Specialization: Software Development, Networking, and Data Communication

Technology Program – Karlberg High School, Åmål

aug 2019 — jun 2021

Technology Program – NTI High School, Karlstad

aug 2018 — jun 2019

TECHNICAL SKILLS

Low-Level Programming	C, C++, MIPS Assembly
Frontend Development	HTML, CSS, JavaScript (Vue.js, React), Jetpack Compose (Kotlin)
Backend Development	C#.NET, Java, Kotlin, MySQL, PostgreSQL
Tools & Platforms	Git & GitHub, GitHub Actions (CI/CD), Docker, Windows, Linux, VMs
Project Methodology	Agile Development (Scrum, Kanban), Jira
Networking	Networking (TCP/IP stack), Network Security (OWASP, Firewalls), DNS (Domain Name System)
ML & Data Analysis	SQL, Python, Numpy, Pandas, Matplotlib, TensorFlow, FastAI

REFERENCES

Bengt Hallinger, Lead System Analyst – Tietoevry, Karlstad

✉ bengt.hallinger@tietoevry.com

ADDITIONAL INFORMATION

LANGUAGES: Swedish (fluent), English (fluent)

DRIVING LICENSE: B