



## Mustafah Rahimi (B.Sc. in Computer Engineering)

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**Links:** [Website](#) , [LinkedIn](#) , [GitHub](#)

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## 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.

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## 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.

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## 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

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## TECHNICAL SKILLS

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

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## REFERENCES

Bengt Hallinger, Lead System Analyst – **Tietoevry, Karlstad**

✉ [bengt.hallinger@tietoevry.com](mailto:bengt.hallinger@tietoevry.com)

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## ADDITIONAL INFORMATION

**LANGUAGES:** Swedish (fluent), English (fluent)

**DRIVING LICENSE:** B