



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

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

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## PROFILE

I am enthusiastic about tackling complex challenges with technology, investing both creativity and dedication into my work. With a background in software development, networking, and data communication, I enjoy contributing to solutions that have a tangible impact. I thrive in environments that value curiosity, collaboration, and innovation, and I am eager to grow and make meaningful contributions as part of a motivated team.

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## WORK EXPERIENCE

### Thesis Project, Tietoevry, Karlstad

jan 2025 — jul 2025

- Developed and implemented LDPC coding algorithms **using C++, CUDA, and MATLAB**.
- Explored optimization and parallelization of algorithms on **NVIDIA GPUs** to reduce data coding latency and enable decoders 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>Programming Languages</b>	C, C++, C#.NET, Java, Kotlin, Python, SQL, MATLAB, MIPS Assembly
<b>Web and App Development</b>	HTML, CSS & JavaScript, Android, Desktop Applications, WordPress
<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>	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