

# Taheera Ahmed

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## Main Experience

- Aug. 2023-present **Research Assistant**, *Norwegian University of Science and Technology, (part-time)*
- Integrated insights on carbon footprint of large-scale algorithms into the curriculum of a course on recommender systems (course link). This involved exploring the power and computational requirements of machine learning models and their environmental impact.
- Aug. 2022-present **Machine Learning Engineer**, *MazeMap, (part-time)*
- MazeMap is a company that creates indoor digital map-solutions for large campuses such as universities, offices and hospitals.
  - Used deep learning and computer vision to generate maps more efficiently. Technologies used: Python, Tensorflow, PyTorch, Docker, Linux, MLflow, VertexAI.
- Aug.2020-present **Tech Lead and Fullstack Dev.**, *Photography Committee at Trondheim Student House (volunteer)*
- Team of ~5, created website (project link). Technologies used: React TypeScript, Kotlin, Docker, Microsoft Azure, PostgreSQL.
- Jun. 2023-Aug. 2023 **Software Engineer, Back-end dev**, *Vipps, (internship)*
- The largest mobile peer-to-peer payment service provider in Norway. Created back-end API integration. Technologies used: Golang, Kubernetes, Docker, Azure, Splunk.
- Jun. 2022-Aug. 2022 **Software Engineer, Back-end dev**, *Netlight (internship)*
- Served as an IT Consultant and worked on database management and developed an API to enhance system integration and data accessibility, using technologies such as GoLang.
- Sep. 2021-Sep. 2022 **Software Engineer, Fullstack Dev.**, *Dreamknit (part-time)*
- Company that creates customisable knitting patterns using an in-house algorithm. Technologies used: React TypeScript, Django, and Microsoft Azure.

## Education

- 2017-present  
(graduating Jul 2024) **MSc. Computer Science**, *Norwegian University of Science and Technology (NTNU)*
- Thesis: Abnormality detection in Chest X-rays using deep learning techniques and computer vision.
  - Project-work: Created a Single Shot MultiBox Detector which was used for object detection, and applied to videos of cars in traffic (project link).
  - Throughout masters, utilised Java, JavaScript, SQL, C++. Learnt general web-development, and agile software development in teams.
- 2020-2023 **BSc. Electrical Engineering**, *Norwegian University of Science and Technology (NTNU)*
- Thesis: Developed control unit and user interface of system for diabetes treatment with near infrared light (thesis link).
  - Specialised in sensors and electrical systems - knowledge about circuit design, PCB design, hardware/low-level programming, and signal processing.

## Other Experience

- Aug. 2021- present **Ambassador for Girls in Tech**
- (Aug. 2022 - Present) Ambassador for the Norwegian organisation "Girls and Technology", holding +30 keynotes to promote tech-education for 3k girls in high schools and middle schools throughout Norway.
  - (Aug. 2021 - Aug.2023) Featured in "vlog-series" created by NTNU in order to promote an education in technology for girls - reaching an audience of +100k. (Jævla Flink Season 2).
  - (Aug. 2021 - Aug. 2023) Created content for @ntnustudent on Instagram with +28k followers.