

Curriculum Vitae – Jørgen G. Finsveen, d.o.b. 2001-08-16

Computer Science student at the Norwegian University of Science and Technology (NTNU)

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in/joergen-finsveen

jorgenfinsveen

Education

2026-09 – Ongoing	**Norwegian University of Science and Technology (NTNU)** Ph.D. Computer Science: Design Space Exploration for Edge AI Applications on Heterogeneous SoCs
2024-08 – 2026-06	**Norwegian University of Science and Technology (NTNU)** M.Sc. Computer Science: Algorithms and Computers GPA: 4.75 (A)
2023-08 – 2024-01	**Technical University of Denmark (DTU)** Erasmus+ Exchange Program
2021-08 – 2024-06	**Norwegian University of Science and Technology (NTNU)** B.Sc. Computer Science: Application Development GPA: 4.3 (B)

Competence and Experience

Application Development
Spring Boot, FastAPI, PHP, Node.js, React.js, NextJS, REST API, PostgreSQL, PWAs, Docker, Nginx, Linux, IoT, MQTT

Algorithms and Computer Architecture
C/C++, ARM Assembly, Algorithm design, Linear programming, NP-completeness

High-Performance Computing
MPI, pthreads, OpenMP, CUDA, Slurm, Apptainer, Bash, Memory optimization

Employment

2026-01 – 2026-06	**Teaching Assistant – NTNU** TDT4125 – Algorithm Construction Grading assignments and providing guidance for the class in its entirety. The course mainly focuses on NP-complete problems, and alternative approaches such as randomization and approximation.
2025-08 – 2025-12	**Teaching Assistant – NTNU** TDT4111 – Information Technology, Introduction Grading assignments and providing guidance for a group of 26 students in Python programming.
2025-06 – 2025-08	**Internship – Bekk Consulting** Full-stack development on a summer project on behalf of OBOS. Included product design as well as developing a PoC application as a PWA using NextJS.
2023-06 – 2023-08	**Application Developer – NTNU** Development of tools for digital education in the form of plugins for moodle.org such as CapQuiz, JazzQuiz, and STACK. Continuation of summer job from the past summer.
2022-06 – 2022-08	**Application Developer – NTNU** Development of the Stack plugin for Moodle learning management system. Plotting of three-dimensional mathematical objects.

Projects

Master's Thesis – Identifying Key Performance Bottlenecks in Mobile GPUs (2026)
Arm Norway, Cycle-level hardware simulators, Accel-Sim, GPGPU-Sim, Vulkan-Sim, Vulkan, Rendering pipelines, Graphics programming, CUDA, C/C++, Python, Linux, Slurm, Apptainer, Cluster computers

Full-Stack IoT Project – Modelling an E-scooter and Mobile Application (2025)
Internet-of-Things, FastAPI, MQTT, MySQL, Python, STMPY, React.js, Raspberry Pi, Linux, Docker, Nginx, PostgreSQL

Bachelor's Thesis – Anomaly Detection and Classification (2024)
Kongsberg Maritime, Python, LSTM, TensorFlow, Pandas, Numpy, Machine Learning, Deep Learning, Unsupervised Learning, Google Collaboratory

Startup Business – 24/7 Athlete (2023)
Prototyping, React.js, Java, Spring Boot, REST API, GitHub Actions (CI/CD), Postman, CORS, JDBC, MariaDB, Monolithic applications, Shell, Filtering algorithms, K-nearest neighbor, Consulting services

Publications

Analyzing the Performance of Rendering Workloads on Edge GPU Architectures (2026-07-06)
Ole Kristian Herstad Dvergsdal, Jørgen Gundersby Finsveen
Thesis, Master of Engineering – Computer Science, NTNU
Available: https://hdl.handle.net/11250/5569229

Health Management – Anomaly Detection and Classification (2024-06-11)
Jørgen Finsveen, Harald Wangsvik Fredriksen, Even Johan Pereira Haslerud
Thesis, Bachelor of Engineering – Computer Science, NTNU
Available: https://hdl.handle.net/11250/3138358

Languages

Norwegian	Native language
English	C1 (IELTS Academic 7.5, 2023)