Alexander Nygård

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🎓 EDUCATION

Bachelor of Computer Science and Engineering,
Technical University of Delft
Sep 2021 – Jun 2024 (Expected graduation)
Delft, Netherlands
GPA: 8.6/10

International Baccalaureate Diploma Programme,
UWC ISAK Japan
Aug 2019 – May 2021 | Karuizawa, Japan
GPA: 42/45

Certificate of Competence, *Kristelig Gymnasium*
Aug 2018 – Jun 2019 | Oslo, Norway
GPA: 5.72/6

⚛ RESEARCH PROJECTS

Deep Learning Research Project - "A comparison study on detection of Deepfakes using ANNs", *Extended Essay*
Feb 2020 – Nov 2020
- Implemented a **Python data processing pipeline** extracting individual image frames from videos using a 50GB+ dataset
- Implemented all models in **Python** using **TensorFlow** and used CUDA for GPU acceleration during training
- Compared 129 unique models from 3 different **deep learning** architectures (CNN, RNN, MLP) using 8 performance metrics

💼 WORK EXPERIENCE

Youth basketball coach,
Nesodden Athletic Association (Nesodden IF), basketball group
Aug 2016 – Jun 2019
- Led a basketball team of 15-20 boys (born in 2007) over 3 seasons from 2016-19
- Planned weekly practices and coached monthly weekend games, recognizing each player and encouraging **teamwork** on and off the court
- Applied **leadership** skills by setting long-term goals for the team and individual players and facilitating conflict resolution

⌨ PROGRAMMING EXPERIENCE

Java • Python • Javascript • Typescript • Node.js

React • Spring • HTML/CSS • Scala • C/C++

SQL • Postgres • MongoDB • ML • Docker

AWS • Azure • Git • Github/Gitlab • UI/UX

📁 APPLIED PROJECTS

Quizzz app
Jan 2022 – Mar 2022
- Led team of 5 peers in developing a multiplayer desktop quiz application for raising awareness on energy consumption and sustainable consumer practices
- Applied **OOP** techniques in **Java** while using libraries like **Spring, JavaFX** and **Hibernate**
- Implemented unit, integration and system tests significantly increasing code coverage using **JUnit** and **Mockito**
- Applied multitasking, prioritization and strong organizational skills while using tools like **Git** and **GitLab**
- Ensured **Agile** principles were followed and **Scrum** practices utilized
- Demonstrated effective communication and leadership skills by leading weekly meetings and solving intra-team conflicts

Marketplace platform
Mar 2020 – Jan 2021
- Developed a **full-stack** marketplace platform where students could post, buy and sell second-hand items, deployed on **AWS EC2**
- Applied **Python**, **Flask** and **SQLite** for the backend and **HTML** (using Jinja templates) and **SCSS** for the frontend
- Conducted client interviews gathering initial requirements, feedback on prototypes and evaluation of the delivered product
- Created extensive documentation spanning system design choices, database schemas, GUI design and algorithm flowcharts

ISAKNOW
Oct 2019 – Nov 2020
- Created a web-based solution for displaying real-time messages on information displays throughout the campus using **HTML**, **CSS** and **Javascript**
- Developed robust web-scraping algorithms in **Python** using Selenium and Beautiful Soup
- Deployed solution using a Raspberry Pi and NGINX

🤝 SOFT SKILLS

Teamwork • Communication • Problem solving

Project management • Organization • Adaptability

🌐 LANGUAGE

Norwegian (native) • English (native)