

# Alexander Kenneth Nygård

📍 Gamle Skoklefeldtvei 4C, 1452 Nesoddtangen, Norway ✉ alexander.k.nygard@gmail.com

☎ +47 900 16 100 [in linkedin.com/in/alex-nygard](https://www.linkedin.com/in/alex-nygard) [github.com/Alex-Nygaard](https://github.com/Alex-Nygaard) [alexnygaard.com](https://alexnygaard.com)

## Education

**Bachelor of Computer Science and Engineering,** 09/2021 – 06/2024 | Delft, Netherlands  
*Technical University of Delft*

GPA: 8.74/10

Highlighted courses: Object Oriented Programming, Web and Database Technology, Algorithms and Data Structures, Information and Data Management, Software Quality and Testing and Computer Networks.

**International Baccalaureate Diploma Programme,** 08/2019 – 05/2021 | Karuizawa, Japan  
*UWC ISAK Japan*

GPA: 42/45

**Certificate of Competence,** *Kristelig Gymnasium* 08/2018 – 06/2019 | Oslo, Norway  
GPA: 5.72/6

## Applied Projects

**Quizzzz app,** *Object Oriented Programming Project* 01/2022 – 03/2022

- Led team of 5 peers in developing a multiplayer desktop quiz application for raising awareness on energy consumption and sustainable consumer practices
- Demonstrated effective communication and leadership skills by leading weekly meetings and solving intra-team conflicts
- Applied Object Oriented Programming techniques in Java while using libraries like Spring and JavaFX
- Applied multitasking, prioritization and strong organizational skills while using tools like Git and GitLab
- Implemented unit, integration and system tests significantly increasing code coverage
- Analyzed the human computer interaction principles of a GUI prototype based on Nielsen's usability heuristics
- Ensured Agile principles were followed and scrum practices utilized

**Marketplace platform,** *Computer Science class project* 03/2020 – 01/2021

- Developed a full-stack marketplace platform where students could post, buy and sell second-hand items
- 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
- Designed and recorded the execution of a system test plan for quality assurance

**ISAKNOW,** *Creativity, Activity and Service Project* 10/2019 – 11/2020

- 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 BeautifulSoup
- Deployed our solution using a Raspberry Pi and NGINX
- Participated in a workshop on goal-setting with McKinsey & Co, resulting in successfully applying SMART goals

## Research Projects

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### Deep Learning Research Project, *Extended Essay*

02/2020 – 11/2020

- 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
- Analyzed the experiment results, extensively discussing strengths and weaknesses of individual models and drew statistically significant conclusions

## Work Experience

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### Youth basketball coach,

08/2016 – 06/2019

*Nesodden Athletic Association (Nesodden IF), basketball group*

- 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

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Java	<div><div></div><div></div><div></div><div></div><div></div></div>	Python	<div><div></div><div></div><div></div><div></div><div></div></div>
Javascript	<div><div></div><div></div><div></div><div></div><div></div></div>	HTML/CSS	<div><div></div><div></div><div></div><div></div><div></div></div>
SQL	<div><div></div><div></div><div></div><div></div><div></div></div>	Scala	<div><div></div><div></div><div></div><div></div><div></div></div>
C/C++	<div><div></div><div></div><div></div><div></div><div></div></div>		

## Tool skills

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### Microsoft Office

Including Word, Powerpoint, Excel, OneNote

### Git

Including Github and Gitlab

### Visual Studio Code

### Microsoft Azure

## Soft skills

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Teamwork

Communication

Problem solving

Project management

Organization

Adaptability

## Language

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Norwegian (fluent)

English (fluent)