

LARS NYBORG PEDERSEN
FULL-STACK AI AUTOMATION ENGINEER

CONTACT INFORMATION

Lars Nyborg Pedersen
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IT-SKILLS

Programming languages: Java, C#, Python, C, JavaScript, TypeScript
Mobile development: Android, Flutter
Frontend: WPF, HTML, XML, CSS, Bootstrap, React
Backend: C#/.NET
Database: SQL, PostgreSQL, Entity framework
AI/Automation: n8n, Retrival-Agumented Generation (RAG), Prompt Engineering
Machine learning: Principal component analysis, Support Vector Machines, Outlier detection, time series classification, Neural Networks and Transfer Learning.
Version control: Git & GitHub
DevOps: CI/CD continuous integration, continuous delivery, Kubernetes, Docker
Cloud: Microsoft Azure
IDE: Visual Studio, VS Code
Testing frameworks: Junit, NUnit
Software engineering practices: Test driven development (TDD), code reviews

LANGUAGES

English	Fluent
Danish	Fluent
Spanish	Intermediate
German	Basic (Learning)

EDUCATION

Software Engineering - Aalborg University,
Bachelor of Science (BSC),
Sep. 2018 – Jun. 2021

SUMMARY

Software engineer with 3+ years of professional experience and 9+ years of software development across full-stack web, desktop, mobile, AI automation, and machine learning projects. Strongest in React, Next.js, TypeScript, C#/.NET, Python, PostgreSQL, Docker, n8n automations, and AI/LLM/RAG-based systems.

WORK EXPERIENCE

Full-stack AI Software Engineer – Black Capital Technology - October. 2025 – Now

- **Technologies:** n8n, Python, React, Next.js, LLM's, RAG, Docker, Google Cloud
- Built a full-stack pricing application using React, Python, LLM APIs, and RAG to estimate building-project costs from structured and unstructured data.
- Preprocessed database with LLM enrichments to find prices for repairs for a automechanic shop using retrieval-augmented generation
- Creating an Email and Calendar automation in n8n to help sellers follow up with their customers

Freelance full-stack Software Engineer – Fairkom - October. 2024 – August 2025

- **Technologies:** React, NextJS, Typescript, Radix UI, PostgreSQL
- Display Europe – A platform for automatically translated articles/podcasts/videos to other languages

Full-stack Software Engineer – Eiva - April. 2023 – May 2025

- **Technologies:** C# .net, WPF, SQL, Microsoft Azure, Git & Github, SVN.
- Frontend and backend development for maritime desktop solutions.
- 90% of time spend with C# .net.
- Created unit tests.
- Utilized agile methodologies, including Scrum and Kanban, to mange projects.

Teaching Assistant – Aalborg University - Sep. 2020 – Jul. 2021

- I helped students solve problems in the course "Algorithms and data structures" during 2 semesters.

SOFTWARE PROJECTS

Data scientist – Smukfest – Jan. 2024 - Jul. 2024

- **Technologies**: Python, Machine learning, Jupyter Notebook, SQL.
- Sales forecast for Smukfest using Machine learning.

ONLINE COURSES

Learn git (Code academy)

Learn to build an e-commerce store with .Net, React & Redux (Neil Cummings)

ChatGPT Prompt Engineering for Developers (DeepLearning.AI)

Intro to Audio Plugin development (Kadenze Inc.)

Learn git (CodeAcademy)

Habits academy (The Habits Academy)

HTML, CSS, and Javascript for Web Developers (The Johns Hopkins University)

Crash Course Study Skills (Crash Course)

Learning How to Learn: Powerful mental tools to help you master tough subjects (Coursera)

Introduction to Java Programming: Starting to code in Java (Universidad Carlos III de Madrid)

Data scientist – Smukfest – Jun. 2023 – Jul. 2023

- **Technologies**: Python, Machine learning, Jupyter Notebook, SQL.
- I did this Data Science project with 6 other people where we forecasted sales for Smukfest in Denmark using XGBRegressor.

Audio programmer – Audio plugins – Mar. 2020 – May. 2020

- **Technologies:** C++, Juce.
- Created a delay audio plugin and chorus flanger audio plugin.

Software Engineer – Mindfulness for ADHD – Sep. 2019 – Jan. 2022

- **Technologies:** Flutter.
- Created an Android & iPhone app with 4k+ downloads in the Google Play store.

Software Engineer – Aalborg University – Dec. 2018 – Jan. 2019

- **Technologies:** XML, C#.
- Created a ranking system for the university.
- Coded the UI.
- Developed in collaboration with Sander De Regt remotely, where I created the frontend.
- Talked with the customer to get requirements.

Software Engineer – Hard Rock Guitar Solo Maker – Feb. 2018 – Jun. 2018

- **Technologies:** Java, XML.
- Developed native android app for making guitar solos.

Software Engineer – Dansk Meditation for børn – Jan. 2017 – April 2017

- **Technologies:** Java, XML.
- Created native android app with meditations for children.

UNIVERSITY SOFTWARE PROJECTS

Software Engineer – Time series classification– Feb. 2021 – Jul. 2021

- **Technologies:** Python, Machine learning, time series algorithms, transfer learning.
- We tested 6 time series classification algorithms and used transfer learning with all combinations of those 6 algorithms.

Software Engineer – Outlier detection– Sep. 2020 – Feb. 2021

- **Technologies:** Python, Machine learning, Outlier detection, Microservice Architecture, Kubernetes, Docker, JSON.
- Implemented the HS-Tree algorithm in a microservice architecture to discover outliers and created a RESTful API for other groups to use in our agile working environment.

Software Engineer – M# Programming language– Feb. 2020 – Feb. 2021

- **Technologies:** Java, Junit.
- Created the M# programming language and developed the compiler for it using Java.

Fullstack Engineer – Umatch – Sep. 2019 – Feb. 2020

- **Technologies:** HTML, CSS, Bootstrap, C# .net core, SQLite relational database, Entity Framework.
- Designed user interface of the web application.
- Programmed the front-end design.
- Coded the backend with C# .net core.
- Testing the application with integration tests and unit tests.
- Created in collaboration with 6 other students.

Software Developer – Classification of breast cancer– Feb. 2019 – Sep. 2019

- **Technologies:** Java, Machine learning.
- We used principal Component Analysis and Support Vector Machines to detect breast cancer.
- Created unit tests.

Programmer – Amazon reviews – Dec. 2018 –Feb. 2019

- **Technologies: C.**
- I programmed this console application with 5 other students.

INTERESTS

- I've played music for 16 years. Guitar, piano, drums and saxophone.
- Researching technology, health, science, and self-improvement topics.
- I enjoy working out in the gym.