

Marc Clausen

Data Engineer · Copenhagen area, Denmark

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SUMMARY

Mechanical engineer turned data engineer. I design pipelines and data platforms that consolidate scattered sources into a single, reliable basis for decisions, and build the full-stack applications that run on top.

EXPERIENCE

Data Engineer – SoftwareOne
Jan 2026 – Present · Søborg, Denmark

- Design and build data pipelines and platforms on Databricks and PostgreSQL.
- Build the full-stack apps on top of them in React, TypeScript and Python.
- Set up the team's AI development infrastructure, with shared development standards and context management for AI agents (Claude Code, OpenCode, Codex).
- Added AI code reviews to the CI pipelines, so the whole team ships faster.

Tools: Databricks, Python, AI-assisted development (Claude Code, OpenCode, Codex), LLMs & generative AI, TypeScript, React, PostgreSQL, Git, Docker, Linux, Cloudflare

Associate Data Engineer – Novo Nordisk A/S
Jul 2025 – Dec 2025 · Hillerød, Denmark

- Migrated the facility's main PostgreSQL database to Databricks to create a unified data platform.
- Lead full-stack developer on two internal applications automating manual metrology processes.
- Ran mob-programming sessions to upskill colleagues in software development.
- Simplified highly complex CAD models to cut computational load in digital-twin simulations.

Tools: Databricks, PostgreSQL, Python, TypeScript, React, Git, AI-assisted development (Claude Code, OpenCode, Codex)

Student Data Engineer – Novo Nordisk A/S
Apr 2024 – Jul 2025 · Hillerød, Denmark

- Built 10+ data pipelines and 4 dashboards in Palantir Foundry.
- Maintained a PostgreSQL database by updating deprecated views.
- Supported compliance processes for digital solutions in a GxP environment.

Tools: Palantir Foundry, Databricks, PostgreSQL, Python, Git, AI-assisted development (Claude Code, OpenCode, Codex)

Teaching Assistant – Technical University of Denmark (DTU)
Sep 2020 – Dec 2024 · Kongens Lyngby

- Assisted in 100+ group work sessions for maths and physics courses.
- Privately tutored 10+ students, raising grades from fail (00) to 7+ after failed first exams.

IT Assistant – Heptagon ApS
May 2018 – Jan 2022 · Roskilde

- Took a 3-day industrial SCADA course.
- Resolved 60+ technical issues on company phones and computers.
- Consulted on two projects involving mechatronics and IoT integration.

SKILLS

PROFESSIONAL

AI-assisted development (Claude Code, OpenCode, Codex) 2.6 yrs · Databricks 2.6 yrs · Git 2.6 yrs · PostgreSQL 2.6 yrs · Python 2.6 yrs · Palantir Foundry 1.3 yrs · React 1.3 yrs · TypeScript 1.3 yrs · Cloudflare 0.8 yrs · Docker 0.8 yrs · Linux 0.8 yrs · LLMs & generative AI 0.8 yrs

SELF-TAUGHT

3D printing & parametric CAD (SolidWorks, OpenSCAD) · Computer vision (OpenCV, YOLO, 3D reconstruction)

EDUCATION

M.Sc. Mechanical Engineering – DTU
2022 – 2025 · GPA 10.7 of 12

Specialised in programming, computational fluid dynamics and robotics, and extended by half a year to gain industry experience.

Thesis: A robotics add-on for open-source CAD that computes advanced trajectory planning from ordinary CAD assemblies.

B.Sc. Mechanical Engineering – DTU
2019 – 2022 · GPA 10.1 of 12

Broad engineering foundation (maths, physics, programming, materials, thermodynamics, fluid dynamics).

Thesis: Neural networks to analyse and optimise turbine wakes in large wind farms.

HTX, Maths/Physics – HTX Roskilde
2016 – 2019 · GPA 11.0 of 12

CERTIFICATIONS

Claude Certified Architect – Foundations – Anthropic
Issued Sep 2026 · valid until Sep 2027

PROJECTS

AeroHome ↗ – Full-stack + 3D reconstruction · 2026 – ongoing
AeroHome lets a real estate agent fly a drone around a property, upload the video and get an interactive 3D model of it back.

Automatic dart scoring system ↗ – Computer vision + ML · 2021
A dartboard that keeps score by itself.

Home server / homelab ↗ – Infra + smart home · 2021 – ongoing
A small data centre at home.

Robotics add-on for CAD ↗ – Robotics + CAD · 2025
My master's thesis at DTU: an add-on for FreeCAD, the open-source CAD program, that plans how a robot arm moves.

More projects with photos and 3D models at clausen.uk.

LANGUAGES

Danish (native) · English (fluent) · Swedish, Norwegian (understand) · learning German and Russian

INTERESTS

3D printing · Board games · Chess · Disc golf · Exercise · Food · Music · Poker & card magic · Audiobooks · Video games