

Mikkel M.H. Pedersen

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Education

Technical University of Denmark (DTU)

Bachelor of Engineering in Software Technology

Sep 2025 — Present

Kongens Lyngby, Denmark

- **Courses:** Mathematics 1a, Introductory Programming, Discrete Mathematics, Mathematics 1b, DSA, Software Engineering 1, Mathematical Statistics

Zealand Business College

Higher Technical Examination Programme in Robot Technology

Aug 2021 — Jun 2024

Slagelse, Zealand, Denmark

- **Grade Average:** 9.2 / 12.0 Grade Average
- **Courses:** Mathematics A, Engineering A, English A, Danish A, Programming B, Physics B, Chemistry B, History B, Technology B, Biology C, Communication and IT C, Social Studies C, Astronomy C
- **The Individual Project (SOP):** Cryptography: RSA implementation, optimization and perspective | **Mathematics A, Programming B**

Work Experience

DSB

Junior RPA Developer

Denmark

Apr 2026 — Present

- Built a UiPath ReFramework robot that automates a monthly card-ordering process end to end, now running in production.
- Designed its queue and transaction model, and benchmarked batched against per-order processing to make the case for higher throughput.
- Track hours returned to the business per department as part of ROI reporting on automated processes.
- Building a formatter that strips UiPath Studio's layout noise from XAML files, making pull request diffs reviewable for the team.
- Debugged TLS/SSL failures between robots and internal APIs in VM environments.

McDonald's (Kongens Lyngby)

Crew Member

Kongens Lyngby

Dec 2025 — Apr 2026

- Transferred as part of my move to study at DTU

McDonald's (Slagelse)

Crew Trainer

Slagelse

Aug 2021 — Nov 2025

- Worked as a crew trainer
- Responsible for training new employees in the kitchen and at the front counter
- Helped with the development of new training materials and procedures.

Zealand Business College (ZBC)

Contract Developer

Slagelse

Jan 2024 — Jun 2024

- Developed a digital solution for ZBC's confectionary department in a three-person team, including a website for ingredient management and compliance with nutritional standards.
- Built and managed an SQL database with a secure admin panel for ingredient and nutrient data control.
- Implemented authentication mechanisms for exclusive administrative access, ensuring data integrity and security.
- Developed a user-friendly information screen system showcasing different educational programs and events.
- Utilized Unity and C-Sharp to create an interactive carousel which showcased the programs and events in a visually appealing manner.

Licenses & Certifications

Cyber Karriere (CC-2024)

Issued by Talentfulde Unge Øst

Sep 2024

Cyber Talent Akedemi (CTA-2023)

Issued by Talentfulde Unge Øst

Apr 2023

Projects

Lunari - Community Management Platform

Collaborative Project

Jul 2025 — Present

- Developed key features for a full-stack community platform built with Laravel and Vue.js, designed to scale from user needs outward.
- Architected a comprehensive file management system with gallery and list views, smart filtering by content type, and seamless user navigation.
- Strengthened application reliability through database constraint fixes, improved validation patterns, and robust test coverage.
- Enhanced platform accessibility by refining authentication flows to better serve both authenticated members and public visitors.

Noter - CLI Note Management Tool

Personal Project

Aug 2025 — Present

- Built a fast, ergonomic CLI tool in Rust for managing notes and assignments with templating support and course integration.
- Designed a flexible template system with versioning, GitHub-based fetching, and per-course configuration mappings.
- Implemented XDG-compliant configuration, migration commands, and seamless editor integration with preferred application fallbacks.
- Shipped multiple releases with automated GitHub Actions workflows for building and changelog-driven releases.

RSA: Implementation, Optimization and Perspective

The Individual Project (SOP)

Sep 2023 — Dec 2023

- Implemented the RSA algorithm in Rust, optimized for performance and security.
- A system to generate keys, encrypt and decrypt messages was successfully incorporated.
- A system to calculate the time complexity of the algorithm was also successfully implemented.

TaskTuner

Personal Project

Apr 2023 — Jul 2023

- Developed a full-stack task management application using TypeScript (60%), Rust (32.3%), and modern web technologies including Svelte/SvelteKit.
- Built a cross-platform desktop application leveraging Tauri framework for native performance and security.
- Implemented robust backend functionality in Rust for efficient task processing and data management.
- Designed and developed a responsive user interface with TypeScript and modern CSS frameworks.
- Created a comprehensive task organization system with features for tracking, prioritizing, and managing workflows.

PassMan - The Password Manager

Programming Exam

Jan 2023 — May 2023

- Implemented a password manager utilizing Tauri, Rust, Svelte and Sveltekit.
- A system to check passwords against a BCrypt hash was successfully incorporated, alongside a password generator with customizable settings and automatic entropy calculation.
- A system to store and manage accounts and passwords was also successfully implemented.

Skills

- **Soft Skills:** Communication, Critical Thinking, Debating, Persuasive Writing, Technical Writing, Prompt Engineering
- **Programming:** Rust, C#, HTML, CSS, Javascript/Typescript, Java, PHP, Python, Typst, LaTeX
- **Tools:** Microsoft Office Suite, Git, GitHub & GitLab, Copilot, Claude, Visual Studio Code, Various JetBrains IDEs, Adobe Creative Suite, Blender 3D, Figma, Unity, Docker, Gradle
- **Web Development:** Svelte & SvelteKit, Tailwind CSS, Node, Bun & Deno, NextJS, SolidJS, React, Laravel, Inertia.js
- **Databases:** SQL, Postgres, SQLite, MariaDB

Languages: Danish (Native speaker), English (C2)

Interests: Programming, Video Games, Reading Science-Fiction, Music

References

- **Lars Reng, CIO at Zealand Business College:** “Mikkel embodies talent and dedication as a student. His mastery of programming is exceptional, complemented by his adeptness in collaborative environments. Notably, Mikkel excels

in articulating his thoughts effectively and possesses a natural inclination to support his peers. His contributions, whether as a contractual developer or a Teacher's Assistant, have consistently been invaluable. I wholeheartedly endorse Mikkel.”