

# Martin Langgaard Jacobsen

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## Skills

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**Languages & Frameworks:** C#, Python, JavaScript/ TypeScript, Java

**Frameworks/ Tools:** .NET, Docker, React, Django, FastAPI, Spring Boot

**Database/Cloud:** mySQL, SQLite, AWS

**Version Control:** Git, GitHub

## Education

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Aalborg University, B.Sc. in Computer Science

Sept 2020 – June 2023

Aalborg University, M.Sc. in Computer Science

Sept 2023 – June 2025

## Projects

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- **AR for Enhanced Video Viewing During Cardio Exercise** – C# | Unity | Python | Meta Quest 3S  
Masters thesis: Designed and developed an AR system to optimize video playback for users during cardio workouts. Managed a team of researchers, delegating tasks and coordinating research experiments with 16 participants. Collected and analyzed user feedback, resulting in valuable insights.
- **Home Helper** – Python/Django | JavaScript | SQLite  
Personal project: Designed and built a scalable system to give an easy overview of home related tasks and controls.
- **Fullstack media journal** – Java | Spring Boot | SQLite | React | TypeScript | Electron | Docker  
Personal project: Designed and implemented a RESTful API to manage media entries, supporting CRUD operations. Built a responsive React frontend with filtering. Shipped as an Electron desktop application.
- **Philips Hue Light Controller** – FastAPI | Python | React | TypeScript | Docker  
Personal project: Implemented a third-party API to manage Philips Hue lights in the home. Designed and built a responsive React frontend.
- **TRACE-Q: Trajectory Reduction using Accuracy Control for reliable Querying** – C++ | Boost Beast  
Semester project: Implemented a RESTful API integration using Boost Beast for querying large data simplified trajectories.
- **Exploring DETR for Recognition and Detection of Traffic Signs** – Python | PyTorch  
Bachelors project: Explored and evaluated computer vision technology in traffic environments.
- **Personal Portfolio Website** - AWS | Javascript | React | HTML | CSS  
Personal project: Portfolio website showing projects and experience.  
[martinlanggaardjacobsen.com](https://martinlanggaardjacobsen.com)