

Trine Herrmann

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EDUCATION

Master of Computer Science

Jul. 2021 – Jun. 2023

University of Wollongong

Wollongong, NSW

- **WAM:** 91.9%
- **Relevant coursework:** *Programming and Data Structures, Web Server Programming, Database Management Systems, Web Development, System Analysis and Project Management, Machine Learning Algorithms and Applications*

Bachelor of Communication and IT

Sep. 2017 – Jun. 2020

University of Copenhagen

Copenhagen, Denmark

- Completed an exchange semester in Wollongong, NSW
- Acted as a student mentor, providing guidance and support to international students
- **Relevant coursework:** *Programming Fundamentals, Introduction to Computer Science, Project Management and Requirements Specification, Networks and Communication, Introduction to Web Technology*

EXPERIENCE

Tutor in Python Programming

Aug. 2020 – Dec. 2020

University of Copenhagen

Copenhagen, Denmark

- Conducted engaging and interactive tutorials in Python and natural language processing
- Developed comprehensive coding exercises that challenged students' problem-solving abilities and reinforced their understanding of core programming concepts

Student Assistant

Dec. 2018 – Mar. 2020

Nordiske Medier

Copenhagen, Denmark

- Performed WordPress web development tasks
- Provided editorial assistance to editor-in-chief to improve quality of publications
- Engaged with individual and business customers to address inquiries and provide support

PROJECTS

Calanus Detector & Length Estimator | *Python, Flask, JavaScript, YOLOv5, OpenCV* | [View on GitHub](#)

- Developed a full-stack Flask web application to automate marine research processes
- Trained and deployed a custom YOLOv5 model for plankton detection, achieving a 95.8% precision and 92% recall
- Implemented length estimation functionality using OpenCV, delivering accuracy rates surpassing 90%
- Collaborated closely with scientists to ensure the tool's practicality and efficacy for plankton data analysis
- The application is now actively used by researchers to develop sustainable plankton harvesting technology

My Rent Buddy | *PHP, MySQLi* | [View on GitHub](#)

- Developed a dynamic website for managing car rentals using object-oriented PHP
- Utilised MySQLi for efficient interaction with database server
- Designed and implemented a user-friendly interface to facilitate seamless bookings and management

VOLUNTEERING

Programming Teacher

Coding Pirates Denmark

- Assisted in the delivery of after-school IT club nights for children to foster a passion for programming
- Educated and guided children in creating interactive projects using Scratch, developing their problem-solving and computational thinking skills

TECHNICAL SKILLS

Languages: Python, Java, PHP, SQL, JavaScript, HTML/CSS, R

Frameworks and Libraries: Flask, OpenCV, scikit-learn, TensorFlow

Tools: Git, Docker