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

Experience

Tutor in Web Development Aug. 2023 – Nov. 2023
University of Wollongong *Wollongong, NSW*

- Assisted students in coding exercises focusing on web technologies like HTML, CSS, and JavaScript
- Provided constructive feedback on code structure, design principles, and adherence to best practices

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 and coding abilities

Student Assistant Dec. 2018 – Mar. 2020
Nordiske Medier *Copenhagen, Denmark*

- Performed WordPress web development tasks for B2B website
- 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

Marking Assistant | *Python, Django, TypeScript, SQLite* | View on GitHub

- Developed a full-stack web application with Django to streamline assignment marking and feedback processes
- Automated grading and feedback generation for efficient academic assessment
- Designed an interactive web interface with TypeScript, HTML, and CSS for a seamless user experience
- Employed SQLite as a lightweight, embedded database management system for efficient data storage and retrieval

Technical Skills

Languages: Python, Java, PHP, SQL, JavaScript, TypeScript, HTML, CSS, R
Frameworks and Libraries: Django, Flask, OpenCV, Pandas, scikit-learn, TensorFlow