Trine Herrmann

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EDUCATION

Master of Computer Science — Jul. 2021 – Jun. 2023
University of Wollongong — *Wollongong, NSW*
- **WAM:** 91.9%

Bachelor of Communication and IT — Sep. 2017 – Jun. 2020
University of Copenhagen — *Copenhagen, Denmark*

EXPERIENCE

Graduate Quantitative Developer — Dec. 2023 – Present
First Sentier Investors — *Sydney, NSW*
- Maintain and enhance code libraries/systems used for research and portfolio construction
- Develop and support front-office tools used for trading, decision-support, and client reporting systems
- Participate in solution planning/design, development, testing, code review, deployment and documentation
- Support and maintain daily operational processes and databases to ensure data quality

Academic Tutor — Aug. 2023 – Nov. 2023
University of Wollongong — *Wollongong, NSW*
- Ran computer labs in web development
- 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

Academic Tutor — 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

Live Reddit Commentary | *JavaScript, HTML, CSS, Reddit API* | View on GitHub
- Built a Chrome extension to display live Reddit episode discussions during TV show streams
- Implemented asynchronous data fetching from the Reddit API to display comments in real-time within the browser
- Added customizable settings for comment display interval and fetching lag to suit individual preferences
- Designed a resizable and draggable comment section with an integrated dark mode toggle for enhanced usability

TECHNICAL SKILLS

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