Yaolin Ge

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MARITIME ROBOTICS AS
Brattørkaia 11,
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Application letter to "Software Engineer"

I got very excited when I found this announcement on Finn.no. I think I can fit into this position.

I am currently a Ph.D. candidate in the statistics group at the Department of Mathematical Sciences at NTNU, and hopefully soon will defend my thesis in the summer. In my Ph.D. project, I mainly work on developing machine learning software systems using statistical toolboxes for data analytics and reinforcement learning strategies for autonomous ocean sampling with underwater robots such as LAUV Thor/Harald and USV Grethe. I have experience with incorporating multiple data sources including the numerical solver SINMOD from SINTEF Ocean and satellite images from Sentinel-2 into my modeling process. I am also good at integrating systems and deploying them into production. I have used multiple cloud computing services such as AWS and Google Colab daily. And I have conducted several successful experiments in Trondheimsfjorden and the Atlantic Oceans, demonstrating my software system's capability and robustness.

I also had experiences with deep learning strategies when I was a research intern at Peking University in 2019 where I achieved motion capturing of my colleagues using an open-source computer vision library called openpose. We then converted captured movements to a humanoid robot to produce the human-robot dance show. It was a fun experience and it motivated me to use more deep-learning techniques.

Apart from my professional life, I am also very active in my spare time. I have been training in Taekwondo for nine years and competed in NM in 2021 (won a bronze medal in senior M 74+). I like dancing and playing piano as well. Additionally, sharing with others about the joy of dancing and Taekwondo is one of my favorite things to do. Last but not least, skiing and hiking in the mountains are my ways of meditation.

I am also a rapid learner and can easily grasp new concepts from different fields; my educational background and experience have reflected that as well. I think this will make me suitable for this position.

I am looking forward to hearing from you soon.

Sincerely,

Yaolin Ge