

## Job Description

### Machine Learning Software Engineer

< | We are seeking highly motivated tech geeks who want to discover the future of data analytics & high-performance computing in capital & energy markets. If you are hungry to explore physical, mathematical and financial problems using deep tech, you will find the perfect match in joining our vision to revolutionize capital & energy markets. | >

#### About the company

JoS QUANTUM GmbH is a company focused on creating software, algorithms and IP for various sectors such as finance, insurance, and energy. We develop quantum algorithms and prototypes for risk analysis, pricing, asset allocation, stress testing, network analysis, and more. What sets us apart is our extensive knowledge base spanning across industries and academic background in physics, computer science, mathematics and expertise in software development, quantum algorithms and quantum information science. This diverse expertise enables us to contribute towards the future of generative AI and quantum computing applications in industries that heavily rely on data analysis, computational power and security.

#### Qualifications and Experience:

- University degree (Master/PhD) in physics, mathematics, computer science or equivalent with a corresponding quantitative, analytical or technological specialization and familiarity with machine learning and data science.
- A good knowledge of programming in Python (and preferably in C++).
- A good knowledge of machine learning frameworks like Tensorflow and Pytorch.
- Solid understanding of large language models, transformers or stable diffusion.
- Knowledge of version control systems such as Git, experience with cloud computing platforms and familiarity with containerization technologies such as Docker.
- Ability to effectively communicate results to technical and non-technical audiences.
- A passion for approaching complex problems with the goal to design and deliver novel practical solutions.
- Understanding of software architecture and design patterns to write scalable, maintainable, well-thought-out, and future-proof code.
- EU citizenship is mandatory.

#### What you will do:

- Development, implementation, testing and deployment of software and algorithms for machine learning and data analysis.
- Utilize profound knowledge in Python to conduct code reviews and implement quality standards for data science code.
- Work prototypes and executable code together with data scientists. Transforming raw code into operational and regulatory-compliant implementations. Additionally, support of the development of core Python libraries and components with a focus on MLOps.
- Work on large language models, embeddings, transformers or stable diffusion.
- Interpret and prepare output data for clients and team members.
- Go-your-own way! We strongly encourage and support creativity and self-fulfillment to follow your own ideas.

#### What we offer:

- JoS QUANTUM is an early stage startup with big ambitions on becoming a major software supplier. With our flat-hierarchies we are innovative on every level and open to every idea.
- You will have 100% responsibility from day one.

**Apply now by sending us your CV with cover note to [career@jos-quantum.de](mailto:career@jos-quantum.de)**