

Position: Director, AI/Deep Learning

Location: 100% Remote – Must be based in the USA

To apply for this position please send your CV to recruitment@singularitynet.io informing the job title on the email subject line.

We are looking for a Director, AI/Deep Learning to join SNET to work on PureCipher project powered by fully decentralized AI and Crypto company. The successful candidate will work with the company's senior management team, along with the AI advisors from SingularityNet.

What you should know about the SingularityNET organization

SingularityNET is the world's leading decentralized AI platform and organization. The SingularityNET decentralized network, and the associated nonprofit SingularityNET Foundation, were founded in 2017 with an extraordinarily ambitious and important mission: To work toward beneficial Artificial General Intelligence (AGI) guided and controlled in a democratic and decentralized manner. Now in an exciting exponential growth phase, SingularityNet is launching a number of inspiring and ambitious spin-off projects planned as part of its Phase 2 whitepaper, including infrastructure, media and biomedical projects.

Global and decentralized, SingularityNET works with a team of c.a. 100 talented scientists, engineers and operational experts, working either remotely or in hubs of excellence worldwide. At SingularityNET we value collaborative and creative ways of working, within a culture of openness and transparency where every team member is empowered to make their finest contribution and thrive.

PureCipher (www.purecipher.com), an Innovative Fully Homomorphic Encryption startup company. SingularityNET on behalf of PureCipher is seeking a candidate for Director, AI/Deep Learning, with a strong background in implementing and programming deep learning using at least one DNN (deep neural networks) algorithms e.g. NLP, CNN, or RNN.

What we are looking for:

The Director, AI/Deep Learning will work with the company's senior management team, along with the AI advisors from SingularityNet (<https://singularitynet.io/>) to develop a cutting edge innovative encryption based middleware product supporting the Healthcare industry; whether in computer vision, character recognition, natural language processing (NLP), or other applicable fields. Additionally, the Director, AI/Deep Learning will help facilitate the development and commercialization of this innovative product. We are a fast-paced company with a pioneer spirit, so the majority of the work will be focused on innovating original and creative content and application, as well as final deliverables and solutions that work in the real world.

Your responsibilities will include:

1. Create requirements for the implementation of the DNN, including overall objective, design and architecture of the neural network.
2. Implement, program, and de-compose the outer and inner layers of the neural network into low level plain text computation functions.
3. Work with and manage large data sets (terabytes and above).
4. Assist encryption team members to create overall requirements for encryption to integrate this middleware within the DNN; and which can subsequently be modified to service additional industries.
5. Work with encryption team members to drive design and development of the DNN network, as per the requirements above. Note that a good amount of programming in C#, C++, Python, JavaScript, or other key languages will be required.
6. Research and assist on product implementation options—such as use of a proxy; end-point agent vs. virtual appliance form factors; developing software using reusable components; scalable integration patterns with current popular IT platforms (via APIs, SDKs); and security ramifications of different architecture choices.

The overall product domain involves security, analytics, and applications (cloud, desktop, and mobile). The firm's internal pace moves aggressively.

Note, this is a hands-on role: the candidate must be able to perform software programming in key languages, have practical experience with deep NNs or RNNs, understand the internal algorithms within at least one class of DNNs, have some basic familiarity with cryptography, and have at least 3 years of work experience.

Requirements

To be successful in this role you will need:

- 5+ years' experience as a high-level management for AI, ML or equivalent teams.
- Degree in Computer Science or equivalent
- Must be proficient and highly skilled in C#, C++, Python, JavaScript
- Ability to perform in a fast-paced environment working with multicultural teams based in different time zones.
- Time zone flexibility
- Problem solving skills
- Research and teamwork spirit
- Ability to take complex concepts and simplify them for the customer in the form or elegant experiences.
- Proficient English written and verbal communication skills.
- Strong ability to communicate AI sketches, prototypes, and wireframes. Experienced and comfortable with presenting work to executives and large groups. Strong ability

to communicate complicated concepts and bring clarity to stakeholders and team members.

- Self-motivated, able to work independently but also collaborative and driven by group critique. Proven track record as an expert in AI who can collaborate well with other functions.

What you will get in return:

- Being part of one of the greatest AI and blockchain teams in the world that aims to create beneficial Artificial General Intelligence for the good of humanity
- The opportunity to help build a groundbreaking AI-driven metaverse together with other world-leading experts.
- A lot of freedom and responsibility in organizing your work hours and location
- Opportunities to advance your career in many potential directions
- Salary and benefits in line with your experience and location

The company reserves the right to change or update this job description any time.