Senior Engineer / Engineer, Blockchain Technologies
Reference #: CTO/ISNS/Cloud/2312/180321

Job Responsibilities

- Responsible for the design, implementation, infrastructure, monitoring and deployment for the backend web-based applications.
- Project coordination, documentation and automated testing.
- Work independently, and also as part of a team with engineers, vendors and customers to resolve technical issues and provide solutions to achieve product goals and meet deadlines.

Requirements

- Bachelor’s Degree in Computer Science / Electronic Engineering / Information Engineering / Information Technology or related fields with 6+ years’ experience, Master Degree with 3+ years’ experience, or PhD holder in related area.
- Candidates with less experience might be considered as Engineer.
- Hands-on experience in backend development and deployment.
- Proficiency in one or more of the following technologies: Go, NodeJS, Django, Docker, Shell Script, Java, SQL/NoSQL database.
- With experience in front end programming is an advantage.
- Good knowledge of Networking, Web, Mobile, Security, Database, Private and Public Cloud technologies and their architectures.
- Good written and oral communication skills in English, Mandarin and Cantonese.

Application

Appointment will be on renewable contract terms with a competitive salary and performance-linked variable pay. Fringe benefits include paid leave, medical and dental benefits, insurance coverage and contribution to MPF. The incumbent will normally work under a five-day week schedule.

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Senior Engineer/ Engineer, Data Analytics
Reference #: CTO/ISNS/CLOUD/2277/180316

Job Responsibilities

- Develop creative solutions to business problems using mathematical algorithms.
- Apply machine learning and predictive modeling techniques.
- Meet current and potential clients to understand their requirements and translate them into written feature requirements.
- Develop sourcing, cleansing, structuring and ingesting new data sources.
- Propose the proper display of data visualization to make findings easy to understand.

Requirements

- Bachelor’s degree in Computer Science/ Electronic Engineering/ Information Engineering/ Statistics/ Mathematics with 6+ years of experience, or Master’s degree with 3+ years’ experience, or PhD holder in related area. Candidates with less experience will be considered as Engineer.
- Expert in Python.
- Skilled in Elasticsearch no-SQL query and database infrastructure.
- Skilled in Java programming and SQL.
- Hands-on experience with any of the following: ML for classification, regression, clustering, reinforcement learning or dimensionality reduction with expertise one or more application domains of NLP, time series analysis.

Application

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Senior Engineer / Engineer, Data Analytics
Reference #: CTO/SNDS/DATA/2341/180426

Job Responsibilities

- Develop compelling PoC’s and solutions using emerging technologies for real-time and big data analytics.
- Apply data-mining, machine learning and/or graph analysis techniques for a variety of modeling and relevance problems.
- Apply state-of-the-art NLP and text mining techniques to understand a large amount of unstructured data.
- Constructing a comprehensive Knowledge Graph that supports variance of applications such as risk management, document summary etc.

Requirements

- Bachelor’s degree or above in Computer Science/Electronic Engineering/Information Engineering/Mathematics with 6+ years of experience, or Master’s degree with 3+ years’ experience, or PhD holder in related area. Candidates with less experience will be considered as Engineer.
- Programming experience in one or more of the following: Java, C++, Python, R or equivalent.
- Hands-on experience on developing and training machine learning models or deep neural networks.
- Familiar with general NLP tasks and techniques, such as parsing, sequence labeling, NER, entity linking, relation extraction, etc. Experience on dealing with large-scale unstructured text data is a plus.
- Experience/knowledge in machine learning packages (e.g., scikit-learn, Tensorflow, caffe, PyTorch) is a plus
- Passion in learning new technologies.
- Self-motivated and well organized with can-do attitude.
- Strong communication and data presentation skills.
- Excellent command of English, fluency in Cantonese and Mandarin is a plus.

Application

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Principal Engineer/Manager, Medical Image Analytics
Reference #: CTO/SNDS/MSA/2319/180612

Job Responsibilities

- Lead deep learning based medical image analytics algorithm development for pathology, endoscopy, ophthalmology, and radiology applications.
- Assist R&D director on initiating new medical image processing and analytics business with leading diagnostic institutes and deliver solutions.
- Develop innovative unsupervised and semi supervised learning technologies to tackle the training data bottleneck for medical image analytics.
- Track the latest technology development and market trend on computer aided detection and diagnosis with medical imaging applications.

Requirements

- Bachelor’s degree in Computer Science / Electronic Engineering or related discipline, 8+ years relevant experiences for Master Degree or 5+ years for PhD.
- Expertise in medical image analysis, computer vision, and machine learning.
- Familiar with mainstream deep learning platforms and neural network models for computer vision.
- Skilled in C/C++ and Python programming.
- Good verbal and written communication skills in English and Chinese.
- Less experience will be considered as Senior Engineer.

Application

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Senior Engineer/Engineer, Security Analytics
Reference #: CTO/SNDS/CSA/2080a-b/180316

Job Responsibilities

- Develop cyber security threat analytics system.
- Study and propose analytics algorithm/module by user cases and requirements.
- Implement analytics algorithm/module using Python.
- Test the analytics algorithm/module and threat analytics system.
- Document all implementation and testing.

Requirements

- University degree holder in Computer Science or equivalent with 1+ years related working experience. Candidates with more experience will be considered as Senior Engineer.
- Experience in data analytics and machine learning algorithms in Python is preferred.
- Experience in well-known data analytics challenge a plus.
- Experience/Interest in security operation and threat analysis a plus.
- Knowledge in network infrastructure a plus.
- A team player with good analytical and communication skills (oral and written).

Application

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**Senior Engineer, Algorithm Design**  
Reference #: CTO/ADS/MLP/2367/180627

**Job Responsibilities**

- Lead the computer vision and pattern recognition algorithm research and development.
- Optimizing, modelling and simulating algorithms for implementations on hardware, firmware and cloud platforms.
- Develop advanced technology in relevant areas and establish a comprehensive patent portfolio for the IP protection.

**Requirements**

- Bachelor’s degree in Computer Science/ Electronic Engineering/ Information Engineering with 6+ years of experience, or Master’s degree with 3+ years’ experience, or PhD holder in related area. Candidates with less experience will be considered as Engineer.
- Research and development experiences in machine learning, computer vision, pattern recognition or artificial intelligent relevant areas.
- Proficiency in C/C++, Python and Matlab programming.
- Experiences in leading algorithm research and software development.
- Familiarity with CUDA/OpenCV/Caffe/OpenCL, firmware, FPGA design, embedded systems is a plus.

**Application**

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Senior Engineer / Engineer, Software Development
Reference #: CTO/SNDS/DATA/2340/180426

Job Responsibilities

- Participate in software development of Artificial Intelligence, FinTech, IoT and smart city projects.
- Responsible for the design, implementation, testing and deployment of big data solutions using a modern toolkit such as Hadoop, Spark, Elasticsearch, NoSQL, etc.
- Work independently, and closely collaborate with other developers and vendors and customers in developing client solutions.

Requirements

- Bachelor’s degree or above in Computer Science/Electronic Engineering/Information Engineering/Mathematics with 6+ years of experience, or Master’s degree with 3+ years’ experience, or PhD holder in related area. Candidates with less experience will be considered as Engineer.
- Proficiency in one or more of the following technologies: Java/Scala/C++/Go, SQL/NoSQL database, JavaScript, NodeJS, Python, Shell script, Play framework, Docker, Kubernetes.
- Hands-on experience in backend development and deployment.
- Experience in big-data technologies such as Hadoop, HBase, Kafka, Spark is a plus.
- Knowledge in blockchain and consensus algorithm is a plus.
- Passion in learning new technologies.
- Self-motivated and well organized with can-do attitude.
- Excellent command of English, fluency in Cantonese and Mandarin is a plus.

Application

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Senior Engineer / Engineer, Computer Vision
Reference #: CTO/SNDS/MSA/2390/180830

Job Responsibilities

- Development computer vision algorithms including image quality enhancement, feature
detection, object recognition, machine learning, etc.
- Code implementation, debugging and optimization.
- Data analytics and data preparation for machine learning on different applications.
- Cooperate with team members and provide system integration solution.
- Perform independent R&D work including literature study, open source code search and patent
reading.

Requirements

- Bachelor’s Degree in Computer Science / Electronic Engineering / Information Engineering /
Mathematics or related fields with 6+ years’ experience, or Master’s degree with 3+ years’
experience, or PhD holder in related area. Candidates with less experience will be considered as
Engineer.
- Experience in computer vision and machine learning.
- Familiar with algorithm development in C/C++ and OpenCV on Windows and Linux platforms,
MATLAB, and Python, Tensorflow with GPU programming is a plus.
- Self motivated and well organized with can-do attitude, good verbal and written communication
skills in English and Chinese.

Application

Appointment will be on renewable contract terms with a competitive salary and performance-linked
variable pay. Fringe benefits include paid leave, medical and dental benefits, insurance coverage and
contribution to MPF. The incumbent will normally work under a five-day week schedule.

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consideration of an application only. ASTRI reserves the right not to fill the position.
**Senior Engineer/Engineer, Bio-Optics**  
Reference #: CTO/OE/MTECH/2184/180622

**Job Responsibilities**

- Research and development of advanced biomedical optical systems design and prototyping, including confocal systems, OCT system, fluorescents systems, etc.
- Define specifications, design and requirements analysis.
- Working in multi-discipline team environments, setups design and preparation, experimentation, transfer to manufacturing design preparation.
- Vendors communication, verification of components opportunities.
- Manufacturing, durability, reliability, cost efficiency assessments.
- Articles, patents applications, conferences, exhibitions preparation.

**Requirements**

- Bachelor’s Degree in Bioengineering with emphasis on Biomedical Optical Systems or Imaging Optical Platform or related fields with 6+ years’ experience, Master Degree with 3+ years’ experience, or Ph.D. holder in a related area. Candidates with less experience will be considered as Engineer.
- Excellent knowledge of ray and wave optics, Applied Optics, Optical Coherence Tomography, fluorescence.
- At least 2 years’ working or research experience for biomedical device / system design and prototype.
- At least 2 years’ working or research experience in design of experiments, confocal systems, fluorescence excitation and detection systems, diffractive optical elements, optical systems design & prototyping.
- Experience for using MATLAB, CodeV or Zemax, LightTools or TracePro, etc., C/C++, Microsoft Office, ImageJ is a plus.

**Application**

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Senior Engineer/Engineer, Mobile Application Development
Reference #: CTO/ISNS/CLOUD/2253/180316

Job Responsibilities

• Develop application front-end and network communication with back-end servers.
• Software development on mobile devices – Android & iOS systems.
• Design and develop mobile application UI/UX.

Requirements

• Bachelor’s degree or above in Computer Science/Electronic Engineering/Information Engineering/Mathematics with 6+ years of experience, or Master’s degree with 3+ years’ experience, or PhD holder in related area. Candidates with less experience will be considered as Engineer.
• Experience in mobile software application development is required.
• Proficiency in Java, Objective-C, Swift, C/C++ programming.
• Knowledge in machine learning is a plus.

Application

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Senior Engineer/Engineer, NLP Algorithm
Reference #: CTO/SNDS/MSA/2354/180612

Job Responsibilities

- Develop natural language processing algorithm for post processing to improve handwritten character recognition system performance.
- Develop language model for automated image tagging semantics understanding for specific scene applications.
- Develop algorithms for natural language processing and understanding for Chinese, English, and mixed language text contents.
- Perform independent R&D work including literature study, open source code search and patent reading.

Requirements

- Bachelor’s degree in Computer Science / Electronic Engineering / Information Engineering / Mathematics with 6 years relevant experience. Master’s degree with 3+ years’ experience, or PhD holder with less experience. Candidates with less experience will be considered as Engineer.
- Solid development experience in image processing, computer vision and machine learning.
- Familiar with machine learning algorithm on computer vision, OCR related development, natural language processing and image processing applications will be a strong plus.
- Familiar with algorithm development with C/C++ on Windows and Linux platform.

Application

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