



Web Advertisement No. 37/21

Code: 88/55/PMD/21

OEC intends to market and explore employment opportunities for IT Human Resource of Pakistan in Japan. In this regard, CVs of IT professionals in below mentioned categories are urgently required for sharing with Japanese Employers/HR Companies.

Job Description/Requirements of IT Professionals for Japan		
#	Category	Description
1.	Software Engineer, Microservices Platform	<p>Work Responsibilities</p> <ul style="list-style-type: none"> ➤ The purpose of our team is to create a platform where the developers can be creative and contribute to the delivery of innovative products to our user base. ➤ Specifically, the work will be to build a microservices platform based on Kubernetes. One of the main roles will involve being a Kubernetes Cluster Admin and developing tools and/or services that can improve the developing speed and reliability of the microservices. As SREs, supporting the development and operation of highly-reliable microservices with full consideration of scalability is another significant responsibility. <p>Required Experience/ Essential Requirements</p> <ul style="list-style-type: none"> ➤ Passion for improving service reliability and developer productivity ➤ Experience using Kubernetes ➤ Willingness to carry out on-call duties to ensure system stability ➤ Strong programming skill using Go and shell scripting ➤ Network knowledge: ➤ Experience working with network proxies such as Envoy/HAProxy/Nginx ➤ Strong understanding of networking, especially OSI Layer 4 to 7: load balancers, proxies, API gateways, DNS, TLS, HTTP protocol... ➤ Good understanding of Linux networking ➤ Working knowledge of cloud networking for GCP/AWS and Kubernetes networking+C10:C11. <p>Education</p> <ul style="list-style-type: none"> ➤ Graduation or higher degree in one of the following disciplines: <ol style="list-style-type: none"> i. Computer Science ii. integrated technology iii. Software Engineering iv. Information Technology v. Electrical Engineering vi. Electronics Engineering vii. Telecommunication Engineering <p>Preferred Experience</p> <ul style="list-style-type: none"> ➤ OSS contribution experience / familiar with OSS community ➤ Experience with system operation based on SLA and SLO ➤ Experience with multi-cloud architecture (e.g. GCP & AWS) ➤ Experience with infrastructure as code (e.g., Terraform & Pulumi) ➤ Experience with system logging, monitoring, and alerting ➤ Network knowledge: ➤ Experience using service meshes in production such as Istio or Linkerd ➤ Experience using network reliability practices such as circuit breaking, rate limiting

	<p>2. Software Engineer, Machine Learning (US App)</p>	<ul style="list-style-type: none"> ➤ Experience designing cloud-based network architectures <p>Work Responsibilities</p> <ul style="list-style-type: none"> ➤ Design, build and maintain machine learning systems to improve customer experience and optimize our service operations. ➤ Utilize a massive amount of data with artificial intelligence, natural language processing and computer vision technologies for user understanding and item understanding ➤ In addition to building machine learning models, you will be responsible for microservice development to integrate the models into the Mercari App. <p>Required Education</p> <ul style="list-style-type: none"> ➤ Graduation or higher degree in one of the following disciplines: <ul style="list-style-type: none"> i. Computer Science ii. Software Engineering iii. Information Technology iv. Business Information Technology v. Electrical Engineering vi. Electronics Engineering vii. Telecommunication Engineering <p>Required Experience</p> <ul style="list-style-type: none"> ➤ 3+ years experience in developing industrial applications with Python. ➤ Experience in machine learning product development with million to billion-scale data using some machine learning libraries and frameworks such as TensorFlow, PyTorch or scikit-learn. ➤ Experience working on end-to-end development of backend systems ➤ Strong communication and interpersonal skills. <p>Preferred Experience</p> <ul style="list-style-type: none"> ➤ Experience designing a system architecture to serve a machine learning model at scale ➤ Experience working with Kubernetes, Docker, or other forms of containerized infrastructure. ➤ Familiarity with cloud-based environments such as Google Cloud Platform, Amazon Web Services. ➤ Good knowledge of distributed data processing technologies. ➤ Experience with infrastructure as code tools such as Terraform, Ansible
<p>3.</p>	<p>Security Engineer</p>	<p>Work Responsibilities</p> <ul style="list-style-type: none"> ➤ As a Security Engineer in the Security Engineering Team, you will perform security design and process reviews as well as develop and deploy security countermeasures, and execute penetration tests. ➤ This is a unique role since you will be involved in high-stakes projects across the organization. ➤ In addition, you will help us ensure the integration of and compliance with security best practices, frameworks, and regulations in these projects. <p>Education</p> <ul style="list-style-type: none"> ➤ Graduation or higher degree in one of the following disciplines: <ul style="list-style-type: none"> i. Computer Science ii. Software Engineering iii. Information Technology iv. Electrical Engineering v. Electronics Engineering vi. Telecommunication Engineering <p>Required Experience / Essential Requirements</p> <ul style="list-style-type: none"> ➤ 4+ years of experience in security domains ➤ Programming experience with one or more programming languages including but not limited to: Go, Python, PHP, Javascript

		<ul style="list-style-type: none"> ➤ Public cloud infrastructure platforms (GCP, AWS and Azure), as well as container technologies (Docker, Kubernetes) ➤ Penetration testing, web application security testing, vulnerability scanning, threat-based infrastructure risk assessment ➤ Security automation and DevSecOps methodologies ➤ Corporate security solutions (DLP, IAM, MDM, Endpoint security/EDR, CASB, ZeroTrust, MFA) ➤ Implemented security controls based on security frameworks and regulations (ISO27001, PCI-DSS, CCPA) ➤ Key management and applied cryptography (TLS, PKI, KMS, blockchain, data encryption) <p>Preferred Experience</p> <ul style="list-style-type: none"> ➤ Recognized security certifications (CISSP, OSCP, GIAC). ➤ Experience leading or investigating in incident handling cases, performed computer forensic investigations, or malware analysis. ➤ Good understanding of modern web application architecture. ➤ Experience with software development tools, such as version control systems, integrated development environments (IDE), and CI/CD tools. ➤ SQL Querying (BigQuery, MySql). ➤ Effective interpersonal and communication skills.
4.	Data Scientist	<p>Work Responsibilities</p> <ul style="list-style-type: none"> ➤ Lead the technical aspects of PoC and other projects ➤ Proposing appropriate technical solutions to clients' problems ➤ Mathematical modeling (prediction, optimization, statistical model design, etc.) ➤ Technical research through international conferences, papers, etc. ➤ Implementation of algorithms and logic, and evaluation of accuracy and performance ➤ Implementation of operational logic ➤ Horizontal deployment of technology and technology branding ➤ Generalization of implementation logic ➤ Disclosure of technical knowledge (speaking at workshops and meetups, writing tech blogs, etc.) ➤ Development environment ➤ Language: Python ➤ Environment used: GCP / AWS / Linux / Docker / Kubernetes ➤ Libraries used: TensorFlow, Keras, PyTorch, Transformers, OpenCV, pandas, spaCy, LightGBM, etc. <p>Education</p> <ul style="list-style-type: none"> ➤ Graduation or higher degree in one of the following disciplines: <ul style="list-style-type: none"> i. Computer Science ii. Software Engineering iii. Information Technology iv. Business Information Technology v. Electrical Engineering vi. Electronics Engineering vii. Telecommunication Engineering <p>Required Experience / Essential Requirements</p> <ul style="list-style-type: none"> ➤ Basic knowledge in machine learning or data analysis ➤ At least 1 year of work experience related to the job description ➤ Working experience in exploratory data analysis ➤ Ability to research international conferences, journal articles, and technical literature related to the job description ➤ Experience in natural language processing (Japanese) or computer vision

		<p>(DL, image processing systems) (not limited to practical work)</p> <ul style="list-style-type: none"> ➤ Comfortable with daily conversation and chatting in English <p>Preferred Experience</p> <ul style="list-style-type: none"> ➤ Languages programming: Python, GO, C++, Java, Scala, JavaScript, TypeScript ➤ DevOps: Docker, Kubernetes, CI/CD, Terraform, unix-based command line ➤ Full stack development: GraphQL, React ➤ Data: SQL, Spark, Hadoop ➤ Data Science and machine learning (Pandas, Scikit learn) ➤ Deep learning (Tensorflow, Keras etc.) ➤ Cloud: AWS/Azure/Google
5.	AI Software Engineer	<p>Work Responsibilities</p> <ul style="list-style-type: none"> ➤ Apply software development practices and standards to develop robust and maintainable software ➤ Develop abstract analytic models to solve complex problems for decision analysis ➤ Maintain an active role in every part of the software development life cycle ➤ Guide non-technical teams and consultants in understanding analytics at scale, infrastructure as code and best practices for robust software development ➤ Optimize and enhance computational efficiency of algorithms and software design ➤ Design data structures and visualization of results to provide users actionable intelligence and situational awareness of supporting data ➤ Interact directly with clients on new features for future product releases ➤ Share software design and solutions ideas. <p>Education</p> <ul style="list-style-type: none"> ➤ Master's Degree in <ul style="list-style-type: none"> i. Computer Research Science, ii. Operations Research, iii. or related field ➤ Graduation or higher degree in one of the following disciplines: <ul style="list-style-type: none"> i. Computer Science ii. Software Engineering iii. Information Technology iv. Business Information Technology v. Electrical Engineering vi. Electronics Engineering vii. Telecommunication Engineering <p>Required Experience / Essential Requirements</p> <ul style="list-style-type: none"> ➤ Masters Degree in Computer Research Science, Statistics, Operations Research, or related field ➤ 2 to 5 years of experience in a software development environment ➤ Experience with Hashicorp Vault, Terraform & Consul ➤ Exposure to analytics applications or experience building analytics tools ➤ Familiarity with data science methods and scaling data science methods ➤ Proficiency with infrastructure as code principles ➤ Familiarity with the storage, manipulation and management of relational, non-relational and streaming data structures ➤ Analytic reasoning and complex problem solving involving mathematical programming and big data problems ➤ Understanding of parallel computing <p>Preferred Experience</p> <ul style="list-style-type: none"> ➤ Language's programming: Python, GO, C++, Java, Scala, JavaScript,

	TypeScript ➤ DevOps: Docker, Kubernetes, CI/CD, Terraform, unix-based command line ➤ Full stack development: GraphQL, React ➤ Data: SQL, Spark, Hadoop ➤ Data Science and machine learning (Pandas, Scikit learn) ➤ Deep learning (Tensorflow, Keras etc.) ➤ Cloud: AWS/Azure/Google
--	--

Note:

1. Please note that CVs of relevant IT professionals will be shared with Japanese employers/ HR Companies, however, selection of candidates is the sole mandate of Japanese employers.
2. For any further details please contact (Phone 051-9253251 & 9253253)
3. For any query related to apply for job on OEC's Online Job Portal (jobs.oec.gov.pk), please contact I.T Wing, OEC Head Office Islamabad, Phone: 051- 9253247, Email: ddit@oec.gov.pk and adnetwork@oec.gov.pk

Closing Date: 30th August, 2021

(Planning, Marketing and Development Wing)
OEC, Head Office, Islamabad.