Weibang Yin
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EDUCATION

- **The University of Tokyo** — Tokyo, Japan
  Master of Science in Computer Vision and Robotics — *Apr. 2020 – Sep. 2022*

- **Nanjing University** — Nanjing, China
  Bachelor of Telecommunication Engineering — *Sep. 2015 – Jun. 2019*

EXPERIENCE

- **Rakuten** — Tokyo, Japan
  Software Engineer — *Apr 2023 – Present*

  - **Infrastructure and Application Monitoring and Automation**: Contributed to the development and maintenance of Rakuten Travel's infrastructure and applications. Focused on performance tuning, bug fixing, and building systems for monitoring, logging, and automation.
    - **Key Contributions**:
      - **Monitoring System Development**: Developed and maintained internal monitoring dashboards, leveraging architecture diagrams to visualize traffic and system metrics across multiple domains. Automated dashboard configuration for real-time monitoring during large-scale events using Vivaldi command chains.
      - **Reporting Automation**: Designed and implemented a reporting automation system to extract key metrics (QPS, CPU, memory) from Grafana and Jennifer. Automated the generation of visualizations and PDF reports for internal monitoring and service reliability analysis.
      - **Log Analysis and Performance Tuning**: Participated in performance tuning and bug fixing efforts for Rakuten Travel services, utilizing log analysis and monitoring data to identify and resolve bottlenecks.
    - **Technologies**: Kafka, Elasticsearch, Logstash, Kibana, Ansible, Prometheus, Grafana, Alertmanager, Kubernetes, Jenkins, Terraform, Docker, CDN, Load Balancer

  - **Load Testing and Performance Engineering**: Led load testing efforts to ensure the stability and performance of Rakuten Travel services during high-traffic events like Super Sales. Designed and executed custom load testing scenarios, analyzed performance bottlenecks, and provided recommendations for improvement.
    - **Key Contributions**:
      - **Load Testing Strategy and Execution**: Designed and led load testing efforts, including defining test scenarios and executing distributed load generation on Google Cloud Platform.
      - **Performance Analysis**: Analyzed logs (e.g., Apache) and system metrics post-test to identify bottlenecks and recommend improvements.
      - **Scalability and Stability**: Ensured system scalability and stability during peak traffic periods through rigorous load testing and performance analysis.
    - **Technologies**: JMeter, Google Cloud Platform (GCE/GCS), Apache, Shell, Load Testing Strategy, Log Analysis

  - **CI/CD and Infrastructure Automation**: Contributed to the development and maintenance of CI/CD pipelines and infrastructure automation tools.
    - **Key Contributions**:
      - Designed and implemented CI/CD pipelines using Jenkins and Groovy to automate the deployment of Rakuten Travel services.
      - Managed and maintained Kubernetes clusters to ensure high availability and scalability of applications.
      - Developed Ansible playbooks to automate infrastructure provisioning and configuration management.
    - **Technologies**: Kubernetes, Jenkins, Groovy, Ansible

PROJECTS

- **Reflection Removal Network**: A deep learning network for reflection removal based on U-Net and ResNet architectures. It can eliminate reflections in images, such as glare from a phone flash on glass or fences captured in photos taken through barriers.
- **Model-Driven DPD Network**: A deep learning-based digital predistortion compensator for broadband VLC systems, integrating model-driven design to improve robustness and reduce training complexity in nonlinear distortion correction.

SKILLS

- **Technologies**: Prometheus, Linux, Git, Linux, Jenkins, Ansible, CI/CD, GCE

- **Languages**: Chinese(Native), English(Business), Japanese(JLPT N1)

- **Programming Languages**: Java, Python, Go, C++, Groovy, TypeScript, JavaScript, SQL

- **Frameworks**: Spring Boot, FastAPI, Nuxt.js, React

- **Databases**: MongoDB, OracleDB

- **Tools**: Kafka, Elasticsearch, Logstash, Kibana, Ansible, Prometheus, Grafana, Alertmanager, Kubernetes, Jenkins, Terraform, Docker, CDN, Load Balancer

- **Work skills**: Teamwork, Scrum, Business Manner

- **AI Skills**: Deep Learning, Computer Vision, Neural Networks, Model-Driven Design, PyTorch