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 Development**: Developed a reporting automation system to extract metrics (e.g. QPS, CPU usage, memory) from platforms like Grafana and Jennifer. Generated visualizations and compiled PDF reports using Python scripts for internal monitoring and analysis.
    - **Key Contributions**:
      - Designed and implemented Python scripts to extract system metrics (QPS, CPU, memory) via Grafana and Jennifer APIs.
      - Automated the generation of plots and reports using Matplotlib and Pandas.
      - Delivered scheduled PDF reports for internal monitoring and service reliability analysis.
    - **Technologies**: Python, Grafana API, Jennifer, Matplotlib, Pandas
  - **Load Testing for Super Sale Readiness**: Design and Led load testing efforts across multiple services to ensure stability during high-traffic Super Sale events. Designed and executed custom scenarios using JMeter, deployed distributed load generation on GCP, and collected Apache logs and system metrics to analyze server performance and bottlenecks.
    - **Key Contributions**:
      - Design and led for every overload test
      - Deployed distributed test execution using Google Cloud to simulate high traffic.
      - Analyzed logs (e.g., Apache) and system metrics post-test to identify bottlenecks and recommend improvements.
    - **Technologies**: JMeter, Google Cloud Platform (GCE/GCS), Apache, Shell, Load Testing Strategy, Log Analysis
  - **Monitoring tools development**: Built internal monitoring dashboards based on architecture diagrams to visualize traffic data across 16 domains. Used Vivaldi's command chain mechanism to automate multi-tab configurations for real-time monitoring during large-scale events (e.g. Super Sale).
    - **Key Contributions**:
      - Parsed internal architecture diagrams to identify monitoring targets across 16+ domains.
      - Generated Vivaldi command chain configurations for automated multi-tab setup (4×4 layout) during monitoring events.
    - **Technologies**: Python, Shell, Vivaldi, Bash scripting, Architecture Analysis

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.

Programming Skills

- **Languages**: Java, Python, SQL, Go
- **Technologies**: Prometheus, Linux, Git, Linux, Jenkins, Ansible, CI/CD, GCE

Skills

- **Languages**: Chinese(Native), English(Business), Japanese(JLPT N1)
- **Work skills**: Teamwork, Scrum, Business Manner
- **AI Skills**: Deep Learning, Computer Vision, Neural Networks, Model-Driven Design, PyTorch