

Sherryl Santoso

Principal AI Engineer with expertise in AI-driven automation, MLOps and Computer Vision

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TECHNICAL SKILLS

Senior Data Scientist / Machine Learning Engineer (9 years of project experience)

Programming Languages: Python | C++ | Shell | SQL **AI & Machine Learning:** Artificial Intelligence | Machine Learning | Deep Learning | Computer Vision | Edge AI | TensorFlow | PyTorch | Scikit-learn

MLOps & Deployment: MLOps | CI/CD | Docker | Kubernetes | MLflow | Kubeflow **Cloud Platforms:** AWS | GCP **Data Processing & Engineering:** Pandas | NumPy | Apache Spark **Computer Vision & Edge:** OpenCV | NVIDIA CUDA **DevOps & Tools:** Docker | Kubernetes | CI/CD | Shell | Git | Linux

WORK EXPERIENCE

04/2018 – today

Lead AI Engineer

Ericsson Taiwan Ltd., Taipei, Taiwan

Project: RAN AI Automation Platform - Taiwan-based telecom AI solution for Far EastTone, improving radio access network efficiency.

- Lead end-to-end design and deployment of an AI-driven RAN optimization platform, improving operational efficiency by 30% and enabling AI native 5G and 6G readiness.
- Develop and deploy production-grade machine learning models using Python, Deep Learning and MLOps pipelines for real-time telecom optimization.
- Implement containerized AI services using Docker and Kubernetes, improving scalability and reducing deployment time by 40%.
- Integrate AI into live network systems, ensuring high availability and reliability across national infrastructure.
- Recognized as a Key Contributor at Ericsson (2023–2026) for integrating AI practices.

Technologies used: Python | Artificial Intelligence | Machine Learning | Deep Learning | MLOps | Docker | Kubernetes

Project: Japan RAN AI Optimization Contract - Japanese telecom AI project, multi-vendor 5G environment for large-scale enterprise deployment.

- Secured and delivered a US\$5 million AI-driven RAN optimization project, achieving measurable performance improvements in a multi-vendor 5G network.
- Designed scalable AI models using Python, TensorFlow and Deep Learning, reducing manual optimization efforts by 35%.
- Built end-to-end MLOps pipelines for continuous model deployment and monitoring, improving model lifecycle efficiency by 25%.
- Led stakeholder communication and technical delivery across international teams, ensuring successful production rollout.
- Received NDO Spot Award 2019 and the Excellent Employee award for creating a POC for NTT Docomo, which led to their onboarding.

Technologies used: Python | Artificial Intelligence | Machine Learning | Deep Learning | TensorFlow | MLOps

Project: Camera-as-a-Service Edge Vision AI - Swedish AI platform for edge video analytics solution with real-time computer vision processing.

- Developed an edge-based computer vision platform enabling real-time video analytics with latency reduced by 50%.
- Built deep learning models for object detection and video intelligence using Python and Computer Vision techniques.
- Implemented edge deployment pipelines using Docker and Shell scripting, improving processing efficiency on constrained devices by 30%. Designed scalable architecture for a service platform supporting multiple internal use cases.

Technologies used: Python | Deep Learning | Computer Vision | Edge AI

09/2016 – 03/2018

Data Scientist

Industrial Technology Research Institute (ITRI), Hsinchu, Taiwan

Project: Detection System for Autonomous Driving - Taiwan-based AI vision system for real-time vehicle and road detection used in autonomous shuttle systems.

- Developed a deep learning based detection system, achieving 91.5% accuracy, improving road safety in autonomous driving environments.
- Built computer vision pipelines using Python, C++ and NVIDIA CUDA, improving processing performance by 40%.
- Designed and optimized training workflows using MLOps practices, reducing model training time by 25%. Collaborated with research teams to deploy models into real-world autonomous vehicle systems.

Technologies used: Python | Deep Learning | Computer Vision | C++ | Shell | MLOps | NVIDIA CUDA

04/2016 – 08/2016

Data Scientist Intern

Pivothead, Taipei, Taiwan

Project: Smart Wearables Real-Time Vision Suite - US-based wearable technology solution for real-time processing on smart glasses.

- Developed four production-ready computer vision applications, including QR scanner, OCR, and colour detection, enabling real-time wearable analytics.

Technologies used: Python | Computer Vision | Edge Processing

EDUCATION

09/2014 – 06/2016

Master of Science, Electrical Engineering and Computer Science
National Chiao Tung University, Hsinchu City, Taiwan

09/2010 - 03/2014

Bachelor of Engineering, Industrial Engineering
Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

CERTIFICATIONS

[Ericsson Global Tech Talent 2024](#) | [The SQL Bootcamp - Udemy 2023](#) | [Ericsson Automation Experienced Level 2023](#) | [Ericsson Machine Learning Experienced Level Assessment 2022](#)

LANGUAGE SKILLS

English (C2) | Indonesian (Mother tongue) | Chinese (C1) | German (A2, currently learning)

HOBBIES

Fitness training | Scuba Diving | Reading