

RAYMOND (WONKWON) LEE

AI INFRASTRUCTURE & APPLIED AI ENGINEER | RELIABLE SYSTEMS | TECHNICAL DELIVERY

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PROFESSIONAL SUMMARY

Applied AI and infrastructure engineer who turns ambiguous operational requirements into reliable technical systems for regulated enterprises. Hands-on background in Python/API automation, infrastructure and security architecture, AI evaluation, and responsible AI research. Experienced leading technical discovery, presenting architectures and tradeoffs, coordinating customers and vendors through delivery, and building AI-assisted workflows for high-stakes environments.

CORE STRENGTHS

AI Infrastructure & Operational Tooling | Technical Discovery & Solution Scoping | Rapid POCs & Demos | Python/API Automation | Infrastructure Change Safety | Client & Vendor Leadership | AI Evaluation & Reproducibility | Security & Regulated Systems

SELECTED AI INFRASTRUCTURE PROJECT

ChangeSafe — AI Infrastructure Change Airlock | *Independent Project*

2026

- Designed and implemented a v0.1 safety boundary that converts AI-generated infrastructure recommendations into typed declarative patches, validates them against strict schemas and permitted state paths, and applies them transactionally to a cloned infrastructure model.
- Built deterministic policy checks for management reachability, protected resources, blast radius, rollback completeness, and required verification; enforced fail-closed domain states, tested inverse rollback, and generated hash-bound decision receipts. Production execution remains intentionally disabled in v0.1.

PROFESSIONAL EXPERIENCE

LG CNS America | *Network Engineer*

Apr 2024 – Present

Englewood Cliffs, NJ

- Lead customer-facing technical workstreams for U.S. financial institutions, coordinating clients, vendors, and internal engineers from discovery and solution design through technical approval, implementation, acceptance, and operational handoff.
- Translate ambiguous requirements into architectures, project plans, technical presentations, runbooks, acceptance criteria, and executive-ready validation reports for systems-integration and managed-service engagements.
- Design and validate regulated banking integrations across data-center, disaster-recovery, and branch environments, including Fiserv/Zelle connectivity, VPNs, DMZ segmentation, firewall ACL/NAT, routing, MPLS/DIA, failover, and production changes.
- Build Python/API automation with Netmiko, Flask, Cisco FMC REST API, and PRTG API for configuration backup, firewall analytics, monitoring evidence, audit-support reporting, and troubleshooting knowledge workflows.

RND4Impact | *Software Engineer*

Aug 2023 – Apr 2024

Remote

- Translated stakeholder needs into backend/data-processing prototypes, validation scripts, and reusable documentation workflows supporting research-to-product handoff and structured evidence review.

PricewaterhouseCoopers | *Data Scientist Intern*

Jun 2022 – Aug 2022

New York, NY

- Developed a BERT-based NLP relation-extraction POC with PyTorch and AWS SageMaker; built preprocessing, training, evaluation, deployment, and monitoring workflows and achieved 94% F1 on the target task.

AI & RESPONSIBLE SYSTEMS RESEARCH

Center for Responsible AI, NYU | *Graduate Research Assistant*

Sep 2022 – May 2023

New York, NY

- Co-developed SynRD, an open-source reproducibility framework for privacy-preserving synthetic-data research; translated research questions into reusable Python experiments, evaluation workflows, and documented limitations.
- Co-authored Epistemic Parity (PVLDB), recognized as VLDB 2023 Evaluation & Benchmark Track Runner-Up and an ACM SIGMOD Research Highlight.

EDUCATION, RECOGNITION & SKILLS

Education: M.S. Computer Science, New York University (2023) | B.S. Computer Science & Mathematics, University of Manchester (2018)

Technical: Python, PyTorch, Pandas, SQL, Flask, REST APIs, AWS SageMaker, Docker, LLM/prompt workflows, network and security architecture

Recognition: ACM SIGMOD Research Highlight | VLDB 2023 Evaluation & Benchmark Track Runner-Up | NYU Wasserman Center Internship Grant (now Violet Internship & Research Award)

Languages: Korean (native), English (professional), Japanese (limited working)