

Richard Lee

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Professional Summary

AI transformation and enablement lead converting stakeholder needs into deployed agent systems and enterprise POCs. Combines hands on implementation with executive engagement, grounding, guardrails, evaluation, observability and human approval across financial services, utilities, finance and business operations.

Technical Skills

AI systems: CrewAI, Copilot Studio, Amazon Bedrock, Microsoft Foundry, agent orchestration, grounding, citations, evaluations, prompt injection controls, guardrails and human approval.

Delivery and enablement: AWS, Azure, FastAPI, Next.js, PostgreSQL, Docker, OpenTelemetry, Arize Phoenix, Grafana, stakeholder discovery, workshops and technical demonstrations.

Business systems: Stripe, Zoho Sign, Mixpanel, Telnyx and Resend across payment, electronic signature, analytics and communications workflows.

Experience

Chief Architect | IntelWave AI

Apr 2026 – Aug 2026

- Deployed a financial services legal POC monitoring 32 approved sources with grounding, citations, escalation and prompt injection controls; all 24 final evaluations passed.
- Deployed a utilities POC with a Copilot Studio parent coordinating 17 child agents across operations, finance close and execution readiness, with business unit tool ownership and human approval.
- Led two engineers and partnered with a client CTO to move agentic automation into production, separating probabilistic outputs from deterministic validation, authoritative records and approved external actions.
- Ran live sandbox outreach across email, SMS, LinkedIn, Reddit, Instagram and Facebook with Arize Phoenix and OpenTelemetry observability.
- Built a CrewAI Cloud quotation POC with deterministic rendering, compliance controls, pricing guardrails and mandatory commercial review, plus an isolated plant simulator demonstrating agent risk and tool gating.
- Developed enterprise AI discovery and Microsoft Foundry implementation frameworks connecting workflows, authoritative data, approvals, audit evidence, identity, private networking, governance, monitoring and cost controls.

Senior Engineer | TeleMedC

Sep 2024 – Nov 2025

- Led a confidential medical device from R&D concept to a market viable prototype through 27 design iterations across product, hardware and software.
- Designed a production grade PCB and integrated mechanical, embedded, peripheral and application systems, improving image quality and user experience while reducing assembly time and complexity.
- Established an AI assisted embedded workflow using GitHub Codespaces and authored interface documentation supporting product, QMS, ISO and medical device licensing work.
- Planned procurement for 30 components and coordinated interfaces across mechanical, embedded, peripheral and application systems.

Founder | Peasy Labs

Jan 2020 – Aug 2024

- Operated a venture lab across customer discovery, requirements, hardware and software prototyping, ecommerce and sourcing; conducted more than 100 customer interviews.
- Tested 2,500 SKUs and processed 500 goods across ecommerce operations. A one month ecommerce test generated SGD 10,000 in sales.
- Built proof of concept models involving specialized sensors, embedded communications, WebRTC, RTOS, cloud services and payment, inventory and order tracking workflows.
- Used business level Mandarin to negotiate directly with Chinese suppliers, reducing selected component costs by over 30 percent and securing custom hardware orders.

Associate Product Manager | Shopee

Aug 2019 – Dec 2019

- Translated business requirements into an internal monitoring platform supporting accounting compliance and executive reporting, then aligned implementation with technical product managers in China.
- Conducted 15 field interviews across Greater Jakarta on mobile prepaid balance and data package purchases to inform product strategy for the micro enterprise unit.

Internship Experience

Four regional product and strategy internships established delivery foundations across German and Italian localization, Redshift backed dashboards, cross functional PayPal delivery, product requirements, implementation guidance and industry transformation research across Southeast Asian markets.

Product Management Intern | Rakuten Viki | Localization and Redshift analytics

Sep 2018 – Jan 2019

Product Management Intern | Photobook Worldwide | PayPal delivery and analytics

Jul 2018 – Aug 2018

Product Management Intern | Shopee | Requirements and implementation guidance

Jun 2017 – Aug 2017

Infrastructure Solutions Division Intern | Enterprise Singapore | Industry research

May 2016 – Sep 2016

Recognition and Presentations

Recognition: AWS AI Engineering Community Builder; contributed perspectives to CNBC and The Business Times.

AI enablement: Presented agent systems at Amazon, Tencent, Stripe, SMU, ACCA, ISCA, AI Summit Seoul, Legal Benchmarks, Preface, SuperAI and OpenClaw Singapore.

Technical topics: Presented OpenClaw and Hermes Agent architecture, multi agent orchestration, grounding, memory, observability, guardrails, governed finance, payments, legal evidence and cloud deployment.

Applied AI: Built MimiClaw on ESP32 and demonstrations for medical triage, legal research, financial reporting, business opportunities, robotics, CAD, PCB design, video generation and multilingual manufacturing negotiation.

Education

Bachelor of Engineering (B.Eng.), Computer Engineering | Singapore University of Technology and Design (SUTD)

May 2015 – May 2020

Cum Laude | Rolls Royce capstone delivered 35 percent under budget.

Semester Exchange, Computer Engineering | Pohang University of Science and Technology (POSTECH)

Aug 2017 – Dec 2017