Riski Linardi

Software Engineer

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SUMMARY

First Class Honours Computer Science graduate, specialising in Machine Learning and AI. Interned at NEC Asia Pacific, taking an enterprise system from requirements to production, and was called back on contract to extend it. More recently, has built AI applications from a planning agent to a fine-tuned classifier, and leads development of a system a small business runs its operations on.

WORK EXPERIENCE

NEC Asia Pacific Pte Ltd - Singapore Feb 2021 – Apr 2021

Assistant Engineer (Contract)

- Cleared a bulk-insert bottleneck that only appeared under production data volume, tracing it to the SQL queries and schema design and reworking both.
- Shipped web features driven by direct feedback from the admin staff using the system daily.
- Built a Flutter mobile app on the ASP.NET Core REST APIs, extending the system to staff working on the floor.

NEC Asia Pacific Pte Ltd - Singapore Sep 2020 – Jan 2021

Application Developer (Intern)

- Replaced a manual, spreadsheet-based inventory process with an automated system covering approval routing, role-based access control and a live monitoring dashboard, delivered in five months of Agile sprints and adopted by the admin team that ran the process.
- Migrated and validated over 100,000 rows of legacy records from spreadsheets into a new relational schema, mapping and reconciling the data against the original.
- Sat with the business users to decide what was worth automating, led a team of interns through the build in C# and ASP.NET Core on Microsoft SQL Server, and wrote the configuration documentation and user guides handed over with the system.

EDUCATION

University of London - Singapore Institute of Management Apr 2023 – Apr 2026

Bachelor of Science (Honours) in Computer Science (Machine Learning and AI), First Class Honours

Republic Polytechnic Apr 2018 – Apr 2021

Diploma in Information Technology

SKILLS

Languages: Python, TypeScript, JavaScript, SQL, C#, Dart
Web & Application Development: React, Next.js, Node.js, FastAPI, ASP.NET Core, Flutter, REST APIs, Tailwind CSS
Databases & Cloud: PostgreSQL, Microsoft SQL Server, MySQL, Docker, Azure
AI & Machine Learning: Large Language Model (LLM) Integration, Retrieval-Augmented Generation (RAG), AI Agents, LangGraph, LangChain, ChromaDB, PyTorch, Hugging Face Transformers
Practices: Requirements Gathering, Agile, Automated Testing, Debugging & Root Cause Analysis, Technical Documentation, Git

TECHNICAL PROJECTS

Let It Cook | AI Agent (Python, LangGraph, LangChain, FastAPI, Next.js)
Deployed agent built as a custom stateful graph that plans a task, routes to web search, document retrieval or a calculator through function calling, then critiques its own answer under caps that guarantee termination. Streams each step to the front end and runs behind per-IP and global rate limits. The calculator parses model output rather than evaluating it.

Trackery | Business Platform and Reporting Dashboard (React, Node.js, PostgreSQL)
Lead developer on a stock, orders and receivables system in live use at a laboratory instrument distributor, with a dashboard covering sales trends, ageing receivables and stock value by warehouse. Proposed features the owners now rely on, including low stock alerts and sales by person in charge, and built the ones they agreed to.

TogetherSafe | Mobile App and User Study (Flutter, Dart, SQLite)
Emergency preparedness app for Singapore, built as a final-year capstone. A calm mode builds habits through streaks and community goals, while a high-contrast emergency mode strips back to the essentials for an active crisis. Tested with 18 participants, scoring 76.4 on the System Usability Scale, with knowledge scores rising from 57 to 86 percent.

Fake News Classifier | Text Classification (Python, PyTorch, Hugging Face Transformers, FastAPI, Docker)
Compared five models against a defined test set for six-class classification, then fine-tuned a transformer with speaker and source metadata added, lifting accuracy from 68 to 71 percent. Served behind a Dockerised API with automated tests.

AWARDS

- IRAS Book Prize: Gold Award (2024), Silver Award (2025).
- vSplash Awards First Runner-up (2020).
- PolyFinTech100 API Hackathon First Runner-up (2020).

LANGUAGES

English: Advanced | Indonesian: Native | Malay: Advanced