APPLIED AI / AGENT SYSTEMS / PRODUCT ENGINEERING

Nicholas Schlederer

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Founder and engineer building agent harnesses, MCP integrations and education software. I connect models to practical workflows through typed contracts, validation and human review.

EXPERIENCE

Founder · Ninnovate / ML4Schools

NOV 2025 - PRESENT

- Built a custom TypeScript CLI and MCP integration layer for agent-driven content and curriculum workflows, supporting multiple coding-agent clients.
- Engineered durable agent workspaces with versioned context, schema validation, restart reconciliation and administrator-controlled saves.
- Built student, teacher and administration workflows around school requirements using React, TypeScript, Express, Firebase and shared contracts.
- Developed browser-based machine-learning workflows covering datasets, model training and evaluation with TensorFlow.js.
- Established release lanes, CI checks, integration tests and container-based verification across connected repositories.

Retail Salesperson · JB Hi-Fi

- Used solution selling to understand customer needs and budgets, explain technology trade-offs and recommend appropriate products.

SELECTED PROJECTS

Multimodal agent interface / Personal R&D

Prototyped voice and gesture interaction for directing coding agents, translating human intent into structured commands and tool actions.

RNN sentiment analysis / University project / Public GitHub

Compared RNN preprocessing approaches; published notebooks and trained Keras models.

TECHNICAL SKILLS

AI & agents	MCP, Claude Code, Codex, agent harnesses, structured generation, validation
Engineering	TypeScript, Python, React, Node.js, Express, Firebase / Firestore
ML & delivery	TensorFlow.js, Keras, Jupyter, GitHub Actions, Docker, integration testing

EDUCATION

University of Technology Sydney

2021 - 2025

Bachelor of Computing Science (Honours) · First Class Honours
Artificial Intelligence and Data Science