

Randy Ren

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EXPERIENCE

Technical Project Coordinator

January 2026 – August 2026

 SAP

Internship – Vancouver, BC

- Built and shipped a **self-maintaining context store** inside Claude Code that ingests each engineering session and re-injects relevant history automatically; extended it into a **Git-backed shared team space** so engineers publish and search each other's context.
- Shipped an **agentic triage system** for the open-source-security backlog that buckets overdue tickets, resolves each to a live owner, and drafts the Jira, Slack, or Outlook follow-up behind a drafts-only safety boundary; **published to SAP's internal skills marketplace**.
- Ran **release operations** for the SAP Analytics Cloud Vancouver org across senior managers, engineers, and architects: audited closed release tickets against semi-annual audit standards and decomposed release-approval decks into idempotent **Jira** sub-tasks.

Machine Learning Engineer

September 2025 – December 2025

 Ledcor

Internship – Vancouver, BC

- Built a quality-control pipeline for fiber installation audits: a **YOLO** detector proposes candidate defects and a **vision-language model** adjudicates each against the installation spec, automating the field-inspection review workflow I had coordinated the prior term.
- Validated against historical auditor decisions on a held-out split, tuning defect thresholds until the pipeline matched auditor judgment case-by-case.

Project Manager

May 2025 – August 2025

 Ledcor

Internship – Vancouver, BC

- Ran **QA** test scheduling and field-inspection tracking for a multi-site fiber build program.
- Owned the escalation path when field findings conflicted with design intent, holding the weekly cadence between field superintendents, design engineers, and external build partners and driving each conflict to a documented decision.

Software Engineer

May 2024 – August 2024

 Visa

Internship – San Francisco, CA

- Built and evaluated personalized authorization models (**Python**, **scikit-learn**) for payment anomaly detection in Visa's **Smarter Stand-In Processing (STIP)** path, the fallback that authorizes transactions when an issuer is unreachable.

PROJECTS

Straits | Real-Time Maritime Oil-Flow Intelligence Dashboard | github.com/randdyren278/straits

- Shipped a live dashboard streaming **AIS** vessel positions (**Next.js**, **React**, **TypeScript**) to track oil-flow disruption through the Strait of Hormuz, Bab el-Mandeb, and Suez; a detection layer flags vessels that go dark, loiter, or show GPS-spoofed jumps, feeding a per-vessel risk score and alert watchlists.

TECHNICAL SKILLS

AI & Agents: Claude Agent SDK, MCP servers, RAG (FTS5 + sqlite-vec, RRF), Ollama, evals, PyTorch, scikit-learn, YOLO/OpenCV

Languages & Tools: Python, C/C++, TypeScript, SQL, Rust, Bash; Jira, Git, Jenkins/CI, SonarQube, Playwright, Docker

EDUCATION

 **University of British Columbia**

Vancouver, BC

B.A.Sc. Electrical Engineering

September 2023 – April 2028

ACTIVITIES

 **UBC Thunderbirds Varsity Track & Field** (U SPORTS/NAIA) | 800m personal best 1:54.79; 5000m personal best 15:17, competing for UBC and British Columbia | Train 7 days/week alongside a full course load.