

JACK HARDING

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SUMMARY

Software engineer with 5 years shipping production systems, now in Vancouver. Works best owning a problem from ambiguous brief through to production, and is looking for remote work with a small team. Learns by building the thing and publishing what the numbers show.

EXPERIENCE

Cloud Engineer | CACI 07/24 - 12/25

- Designed multi-tenant AWS CDK infrastructure with State Machine-orchestrated provisioning, cutting tenant configuration from 2 days to 5 minutes
- Built a shared Pydantic data validation library adopted across multiple engineering teams, reducing cross-team data defects
- Built a unit, integration, and E2E test automation suite wired into CI/CD, lifting test coverage 20%
- Guided junior engineers through code review and oversaw a distributed team maintaining the Playwright automation suite
- Authored the core project specification and Confluence requirements documents the team designed and built against

Career Break 03/23 - 06/24

Extended travel; independent projects throughout.

Data Scientist Jr. | Inne 03/21 - 03/23

- Worked in a regulated medical-device environment where data correctness was a compliance requirement
- Built a real-time analytics dashboard over DynamoDB and S3 with Cognito authentication, deployed on EC2
- Designed a user-segmentation database in Aurora Serverless Postgres, dividing users by age group and usage patterns

Database Engineer | NeoDyne 09/19 - 10/20

- Designed schema and tuned query performance across SQL Server databases, integrating SAP master data through SSIS

PROJECTS

ATES Avalanche Risk Classifier 03/26 - Present

- Built a classifier predicting avalanche exposure ratings for alpine routes, integrating the AutoATES-v2 runout model with a GPX route planner
- Processes raw DEM rasters and vector terrain data into model-ready features using GDAL and GeoPandas

Strava Running Coach (MCP) Ongoing

- Built a Claude-integrated MCP server (Go, AWS Lambda) exposing activity data via OAuth through Secrets Manager, deployed with CDK
- Condensed multi-thousand-point activity streams server-side to fit LLM context windows, trading resolution for token budget

Bellingcat RAG Chatbot 01/24 - 06/24

- Built a RAG chatbot over an investigative-journalism archive, embedding scraped articles into ChromaDB
- Evaluated Llama2 against Mistral-7b-instruct and selected Mistral-7b on benchmark performance

Serverless Analytics Platform 12/25 - 01/26

- Built an end-to-end event ingestion pipeline with AWS CDK, Lambda, Kinesis Firehose, and S3
- Served analytics-ready datasets through an Athena and Glue layer feeding Metabase

Lambda Bench 06/26 - Present

- Built a pip-installable CLI benchmarking AWS Lambda cold and warm start performance across Python and Go runtimes
- Measured Go cold starts at 62-69ms against 472-495ms for Python with NumPy

SKILLS

Programming	Platform and Tools
Python	AWS (Lambda, CDK, S3)
Go	PostgreSQL / SQL Server
TypeScript / React	Docker
FastAPI	CI/CD, Git
LLM / RAG / vector DB	Claude Code / MCP
Geospatial / GDAL	OpenTelemetry / Grafana
GraphQL	Infrastructure as Code

EDUCATION

Advanced Statistics for Data Science, Coursera

Computer Engineering, TU Dublin, 09/15 - 10/19