

# SOFTWARE & DATA AI ENGINEER

## NICOLÁS KLEIN

PhD Candidate (Computing) | Master's in Data Science

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**Work Rights: Unlimited Work Rights in Australia | Availability: Full-Time, Immediate Start**

Software, Data & AI Engineer with 10+ years of experience building production-grade systems and cloud solutions. Proven track record designing multi-cloud architectures (AWS, Azure, GCP), integrating enterprise ERP/CRM data ecosystems, and delivering automation solutions that reduced operational processing cycles from 30 days to 3 days. Seeking a full-time internal role to apply expertise in data engineering, scalable backend systems, and applied AI to drive enterprise-level impact.

### CORE SKILLS

**Data Engineering:** Microsoft Fabric, Data Fabric architectures, SQL data modeling, Databricks, ETL/ELT pipelines, Apache Spark, Databricks, and real-time ingestion (Kinesis).

**AI & ML Engineering:** Agentic AI (LangGraph, CrewAI, AutoGen), LangChain, PyTorch, TensorFlow, and Deep Learning systems via Amazon Bedrock & Azure AI Studio.

**Software & Backend:** Python (FastAPI), C# (.NET), Java, Node.js, TypeScript, and REST APIs development.

**Cloud & DevOps:** Azure, AWS, Google Cloud, Terraform (IaC), Docker, and Kubernetes.

**Analytics & BI:** Power BI, Microsoft Power Platform, Amazon QuickSight, and automated reporting pipelines.

**Automation & CI/CD:** Azure DevOps, GitHub Actions, and ServiceNow workflows.

### PROFESSIONAL EXPERIENCE

**Independent AI & Data Consultant | Perth, Australia & Remote Freelance / Contract | 01/2025 – Present**

- **Mercor AI (Client):** Architected Agentic AI frameworks (LangGraph), reducing manual audit cycles by 65%. Audited scalable architectures, ensuring high-performance standards in production environments.
- **Mindrift (Client):** Architected datasets for GenAI, reducing data preprocessing latency by 40%. Optimized fine-tuning pipelines (Python/SQL) for enterprise-grade AI applications.
- **KarrotsKode:** Engineered FastAPI/Node.js microservices, increasing throughput by 50% for production. Designed SQL data models, improving reporting granularity and operational ROI by 15%.

**X-Analytic | Machine Learning Engineer**

**Remote, Chile/Peru | 08/2024 – 12/2024**

- Automated end-to-end ML pipelines on AWS, reducing model retraining time by 70%.
- Standardized execution for 100% reproducibility, improving developer onboarding speed by 30%.

**TCS (Client: MetLife) | Data Engineer**

**Remote, USA/Chile | 06/2022 – 11/2023**

- Optimized 50TB+ BigQuery models, reducing compute costs by 25% via SQL refactoring.
- Validated API integrations using Swagger/Postman; managed delivery via Azure DevOps.

**MINVU | Data & BI Engineer / Project Coordinator**

**Santiago, Chile | 06/2021 – 06/2022**

- Automated financial reporting (30 days to 3), saving \$200k/year via Python and Power BI.
- Streamlined subsidy payments for ~950,000 citizens, increasing administrative efficiency by 80%.
- Modernized national BI dashboards, providing real-time visibility into a \$2.5B budget.

**Intexa Ingeniería | Corporate Control & Strategic Analysis Remote, Chile/Col | 01/2019 – 06/2021**

- Architected custom ERP & Management Systems, unifying multi-country operations and complex business logic.
- Engineered automated data ecosystems, reducing manual consolidation by 60%.

**EDUCATION**

**PhD Candidate in Computing (Part-Time ) | Curtin University, Australia | 2026 – Present**

**Master of Computing (Computer Science) Curtin University, 2025**

**Master’s in Data Science University of Development (UDD), 2020 - 2022**

**Bachelor of Business Engineering UNAB Chile, 2016**

**POSTGRADUATE & TECHNICAL TRAINING**

**Software Engineering Program Curtin University, Australia 2024**

**Diploma in Web Development AIEP Technical Institute, Chile 2020**

**Diploma in Accounting & Finance Adolfo Ibáñez University (UAI), Chile 2019**

**CERTIFICATIONS**

- **DeepLearning.AI Data Engineering Professional Certificate** AWS (2026)
- **Advanced Data Science & Machine Learning** Google Cloud (2024)
- **Multi-Cloud Certified Data Engineer** CertiProf (Azure, GCP, AWS) (2024)
- **Google Project Management Professional** Google (2023)

**SELECTED PROJECTS**

- National Housing: Data-core for 950k+ citizens; predictive monitoring & auto-pipelines.
- Agentic AI: Multi-agent system (LangGraph/FastAPI) & Live AI Avatar (nicolasklein.au).
- Enterprise Data (TCS): 50TB+ BigQuery pipelines; awarded Golden Guru distinction.
- Industrial ML Ops: AWS training/inference pipelines for Mining & Industry models.
- Smart-City Engine: Intake for 180k+ residents; 60% latency reduction via automation.

**AWARDS & SPEAKING**

- **Speaker** | PyCon Chile 2023: Geospatial Data Science & Predictive Modelling.
- **Golden Guru Distinction** | TCS: Excellence in BigQuery Architecture & SQL Optimization.
- **Highest Distinction** | UDD: Summa Cum Laude (Perfect GPA 7.0/7.0), Master’s in Data Science.

