

# Baiyi Lian

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## SUMMARY

I am an AI Developer with hands-on experience in LLMs and cloud technologies, with a passion for designing AI agents and bridging business requirements with technical solutions. I am seeking to leverage AI engineering expertise in building cutting-edge AI applications.

## EDUCATION

### **University of Helsinki, Helsinki, Finland**

*Master of Arts / Language Technology*

*Sep. 2023 – Jun. 2025*

- GPA: 3.52/5.0
- Relevant Coursework: Deep Learning, Building NLP Application, Models and Algorithms in NLP, Advanced Programming, etc.

## PROJECTS

### **MediCore-Agentic, Personal Project**

*Topic: Secure Decision Support System for Clinical Workflows*

*Jan. 2026*

- Autonomous agent capable of solving complex clinical data tasks e.g. **clinical guideline retrieval**, achieving a 30%+ score on the **GAIA Benchmark**.
- **Code-Action Agent** using **smolagents** and **Azure OpenAI (GPT-4o)** without relying on LLM intuition.
- Secure execution environment using **E2B sandboxing** which runs in an isolated VM to prevent data leakage.
- Custom **RAG** tools for clinical guideline retrieval and automated form-filling logic using vector-based retrieval.
- **SKILLS:** AI agent, RAG, E2B sandboxing, Azure OpenAI.

### **Car-ing is sharing, DataCamp**

*Topic: Analyse car review with LLM*

*Sep. 2025*

- Use a variety of pre-trained HuggingFace LLMs to respond to the tasks using **prompt engineering**, e.g. classifying the sentiment in a car's text review, answering a customer question, summarizing or translating text, etc.
- **SKILLS:** Prompt Engineering, sentiment analysis, text summarization, question-answering, machine translation.

### **DigiNsure Inc., DataCamp**

*Topic: OCR for insurance classification*

*Aug. 2025*

- Used **multi-modal learning** with text and scanned insurance documents to train an **Optical Character Recognition (OCR)** model for insurance classification.
- **SKILLS:** Multi-modal learning, Optical Character Recognition, sentiment analysis.

### **ABC\_search, University of Helsinki**

*Topic: Coursework: Building NLP Application*

*Jan. 2024 – Mar. 2024*

- Developed a search engine using **Boolean search**, **TF-IDF search** or **semantic search** with sBERT, retrieving medical text data from MedicalNewsToday.
- Applied **Agile methodologies** in the workflows and collaborated using **Git**.
- **SKILLS:** NLP, Git, Software Development.

## WORK EXPERIENCE

### **Language Trampoline Project (KONE foundation), Helsinki, Finland**

*Consecutive Interpreter*

*Dec. 2025 - Current*

- I worked as a freelance English-Chinese interpreter on the Language Trampoline project (KONE Foundation), where I met parents of non-Finnish-native toddlers and preschoolers and collaborated with the PhD researcher to develop language support strategies for their children.
- **SKILLS:** OPI interpretation, Cross-cultural Communication, Active Listening.

## CERTIFICATES

**HuggingFace: Fundamentals of Agents (Dec. 2025)**

**DataCamp: Associate AI Engineer for Data Scientists (Dec. 2025)**

**IBM: Python for Data Science, AI & Development (Aug. 2023)**

**Microsoft Certified: Azure AI Fundamentals (Jun. 2023)**

## TECHNICAL SKILLS

**AI & Machine Learning:** Large Language Models (LLMs), RAG Systems, PyTorch, HuggingFace, Scikit-learn, Reinforcement Learning (Gymnasium, RLHF)

**Agentic framework:** smolagents, LangChain, LlamaIndex

**Data Engineering:** Distributed Computing (PySpark), SQL (Snowflake/Supabase), ETL Pipelines

**MLOps & Cloud:** Docker, Kubernetes, Azure DevOps, GitHub Actions, CI/CD for ML (CML)

**Software & Languages:** Python, R, Shell Scripting, High-Performance Computing (HPC), JavaScript, HTML, CSS, LaTeX

**Infrastructure:** Git/GitLab/GitHub, Azure OpenAI Service

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## LANGUAGE SKILLS

**Mandarin/Cantonese/Hakka:** Native

**English:** Working proficiency

**Japanese:** Working proficiency

**Finnish:** Basic

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