

Thösam Norlha-Tsang

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EDUCATION

ETH Zürich , <i>Master's Degree in Computer Science</i> Focus on Machine Learning, Data Science, and Big Data	Sep. 2023 – Feb. 2027 Zürich, Switzerland
EPFL , <i>Bachelor's Degree in Computer Science</i> Focus on Algorithms, Databases, Software Engineering	Sep. 2020 – Jul. 2023 Lausanne, Switzerland

PROFESSIONAL EXPERIENCE

Amperecloud 🌐 <i>Software Engineer</i>	Feb. 2026 – Present Berlin, Germany
<ul style="list-style-type: none">Contributing to a large-scale microservices platform (80+ backend services, 36+ micro-frontends) accelerating the energy transition to renewables.Shipped customer-facing features and bug fixes across frontend and backend services, collaborating with cross-functional teams (product, customer success) in Agile sprints.Proficient in AI-assisted development workflows (MCP, plugins, skills, sub-agents); integrated Claude Code into daily coding to navigate a 120+ repo polyrepo codebase and accelerate ticket delivery.	
Adnovum 🌐 <i>Software Engineer Intern</i>	Feb. 2024 – Jul. 2024 Zurich, Switzerland
<ul style="list-style-type: none">Implemented data ingestion pipelines using the Strategy pattern, APIs, and microservices methods, while refactoring existing logic for maintainability.Ensured software quality through testing: unit, integration, and end-to-end tests (OpenShift) and participated in code reviews.Automated CI/CD workflows via GitHub Actions, updated dependencies/plugins, and handled deployments.	

PROJECTS

Open Deep Search Optimization - Datathon , <i>Rank: 4</i>	Apr. 2025
<ul style="list-style-type: none">Enhanced multi-hop QA in OpenDeepSearch by integrating DeCRIM (DecomposeCritiqueRefine) self-correction pipeline.Designed LLM agent prompting (ReAct/CodeAct) and embedding-based reranker 74.1% FRAMES benchmark score.	
Interpretable and Explainable Classification , ETHZ, <i>Grade: 5.8/6-</i> 🐙 Github	Apr. 2025 - May 2025
<ul style="list-style-type: none">Compared logistic regression, Neural Networks, and Neural Additive Models (NAMs) on heart disease tabular data; leveraged NAMs' inherent interpretability and SHAP for feature attribution.Trained CNNs for pneumonia detection on chest X-rays; applied Integrated Gradients and Grad-CAM to localize decision-relevant regions, reduce spurious correlations, and align reasoning with clinical knowledge.	

RESEARCH EXPERIENCE

Structured Reasoning and Ethical Alignment in LLMs , <i>Master's Research Project</i> <i>SPCL - Scalable Parallel Computing Lab</i>	Oct. 2025 – Feb. 2026 Zürich - ETH, Switzerland
<ul style="list-style-type: none">Designed and implemented a modular graph-based reasoning framework in Python to constrain and analyze LLM behavior under predefined rules.Built and evaluated multiple reasoning strategies on public moral-reasoning benchmarks; integrated local and API-based LLMs with focus on alignment, interpretability, and failure analysis.Co-authored a research paper (in preparation).	

SKILLS

AI-Assisted Development: Claude Code (MCP, plugins, skills, sub-agents); parallel multi-agent workflows
Backend / Systems: Python, Java, Spring Boot, Scala, JavaScript, TypeScript, Node.js, SQL (PostgreSQL, MySQL), MongoDB, Redis, VictoriaMetrics, DuckDB, ETL, REST APIs, Microservices, Scaling, Docker, OpenShift, Kubernetes, Git
Frontend / Full-Stack: React, React Native, Redux, Next.js, Vue.js, HTML/CSS, Figma
Testing / DevOps: Test-Driven Development, Code Review (feedback) JUnit, CI/CD pipelines, Agile/Scrum, Version Control