

Thösam Norlha-Tsang, AI/ML Software Engineer

📍 Zurich, CH | 🇨🇭 Swiss Citizen | 🌐 thosam.com | 🔗 LinkedIn | 🐙 Github | ✉ thosamthosamthosam@gmail.com

EDUCATION

ETH Zürich , <i>Master's Degree in Computer Science</i> Focus on Machine Learning, Data Science, and Data Management	Sep. 2023 – Aug. 2026 Zürich, Switzerland
Swiss Federal Institute of Technology (EPFL) , <i>Bachelor's Degree in Computer Science</i> Practical software engineering experience through coursework and personal projects	Sep. 2020 – Jul. 2023 Lausanne, Switzerland

PROFESSIONAL EXPERIENCE

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.Actively collaborated in an Agile Scrum team with UX designers, business analysts, software engineers, software architects, DevOps, and external partners; engaged directly with clients in bi-weekly meetings.Technologies used: Java Spring Boot, MongoDB, OpenShift, GitHub Actions, Jira and Confluence.Received a strong <u>recommendation letter</u> recognizing technical skill, independent work and team collaboration.	

PROJECTS

ConnectOut - 🐙 Github	Feb. 2023 – May 2023
<ul style="list-style-type: none">Served as Scrum Master for a portion of the project, leading sprint planning, discussions, and meetings to ensure timely delivery and team coordination.Developed an Android mobile app in Java using MVVM pattern and Firebase. Won 2nd place for best application at EPFL.Collaborated in a team of 6 software engineers using Agile Scrum methodology and Test-Driven Development.Maintained high code quality achieving an A for maintainability and 91% test coverage, by participating in code reviews.	
UniHousing	Sep. 2022 – Feb. 2023
<ul style="list-style-type: none">Built a cross-platform app for subletting rooms (React Native, Node.js + MongoDB).Designed APIs, database schema, and implemented frontend features using Figma.	
TalkZone - 🌐 Website	Jun. 2022 – Dec. 2022
<ul style="list-style-type: none">Deployed social media platform (Vue.js, Java Spring, MongoDB) with modular MVC architecture.Implemented features including authentication, posts, and messaging.Collaborated closely with a teammate to maintain consistent coding standards and conduct code reviews.	
ACME Client for Automated Certificate Management	Nov. 2023
<ul style="list-style-type: none">Owned full development of an ACMEv2 client (Python) with DNS/HTTP challenge servers and automated certificate requests.Achieved 100% protocol compliance (RFC 8555), including revocation handling.Applied multithreading to handle concurrent services under strict <1 min runtime.	
Database System for Yelp Dataset	Spring 2022
<ul style="list-style-type: none">Designed and normalized a relational schema (20+ tables, e.g., Users, Businesses, Reviews, Attributes) and ETL pipeline, ensuring data integrity and eliminating redundancy.Optimized multi-join analytical queries and reduced runtime by 99% through indexing and query plan analysis.	

SKILLS

Backend / Systems: Python, Java, Spring Boot, Scala, JavaScript, TypeScript, Node.js, SQL (PostgreSQL, MySQL), MongoDB, 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