

Thösam Norlha-Tsang

Swiss Citizen

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Education

ETHZ - Eidgenössische Technische Hochschule Zürich

September 2023 – July 2026

Computer Science MSc, Machine Intelligence

EPFL - École Polytechnique Fédérale de Lausanne

September 2020 – July 2023

Computer Science BSc

Work Experience

Software Engineer Intern at Adnovum

February 2024 – July 2024

- Developed backend services in an **Agile** environment, focusing on **microservice architecture**.
- Creation of API endpoints and API definition + implementation of backend methods for numerous services within the application and for external services.
- Utilized technologies including **Jira**, **Confluence**, **Java Spring Boot**, **OpenShift**, and **MongoDB**.
- link to recommendation letter : <https://shorturl.at/E90mB>

Projects

ConnectOut

February 2023 - May 2023

- Android mobile application implemented in **Java** using **Android Studio** and **Firebase** using **MVVM** pattern.
- Collaboratively worked as a team of 6 software engineers using the **Agile Scrum methodology** to ensure efficient project management and maximize productivity.
- Use of **Codeclimate** and achieving A for maintainability and 91% test coverage.
- link to github : <https://github.com/ConnectOut-sdp/sdp2023>

UniHousing

September 2022 - February 2023

- Cross-platform mobile application implemented in **Typescript** using **React Native** with **Expo CLI** for the frontend part with prototyping in **Figma**.
- Backend implemented in **Typescript** using **NodeJS** and **MongoDB**.
- link to front-end : <https://github.com/Thosam1/UniHousing>
- link to back-end : https://github.com/Thosam1/uni_housing_backend

Social Media for my university for university students

June 2022 - December 2022

- Fully functional Social network written using the **MVC** pattern and modular code.
- Frontend with **Vue js** and backend with **Java Spring** and **MongoDB**
- link to website : <https://talkzone.ch/>

Bandit Algorithms and Recommendation Systems

February 2023 - June 2023

- Conducted a **Bachelor Project** in the Information and Network Dynamics INDY Lab at EPFL.
- Developed and implemented diverse **Bandit algorithms**, including multi-armed and linear Bandits (Explore-then-Commit, Epsilon Greedy, Upper Confidence Bound, Thompson Sampling), from scratch using **Python**.
- Evaluated the performance of these algorithms on both simulated and real-world datasets.
- Successfully addressed complex challenges in **data processing** and **analysis**, ensuring the adaptation of these algorithms for real-world **recommendation systems**.
- link to github : <https://github.com/Thosam1/BachelorProject>

Skills

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|---------------------------|----------------------------------|-----------------------|
| ○ Java (Java Spring Boot) | ○ Python | ○ C, C++ |
| ○ MongoDB, Firebase, SQL | ○ React Js, Vue Js, React Native | ○ Scala |
| ○ Javascript, Typescript | ○ Git, Github, GitLab Docker | ○ Node Js, Express Js |

Languages

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|------------------------------------|--------------------------------------|
| ○ French (native - Swiss passport) | ○ English (Fluent - lived in London) |
| ○ German (B2 - Conversational) | ○ Tibetan (native) |