

Thösam Norlha-Tsang

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🏠 Thosam1

Education

- ETHZ - Eidgenössische Technische Hochschule Zürich** September 2023 – July 2026
Computer Science MSc, Data Management Systems
- 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**.
 - Utilized technologies including **Jira**, **Confluence**, **Java Spring Boot**, **OpenShift**, and **MongoDB**.
- Peer Tutor + Teacher Assistant** January 2015 – May 2023
- Tutoring from middle to high school students in mathematics, physics, chemistry and German.
 - Teaching and helping first year university students with their Linear Algebra assignments.
 - Meet with students weekly to explain concepts, answer questions and cultivate their passion in those topics.

Projects

- 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>
- ConnectOut** February 2023 - May 2023
- Android mobile application implemented in **Java** using **Android Studio** and **Firestore** 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>
- Personal Website with a Blog** February 2022 - May 2022
- Website implemented in **TypeScript** using **NextJs**.
 - link to website : <https://www.thosam.com/>
- 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/>

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