Thösam Norlha-Tsang

Swiss Citizen

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 Thosam1

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 + impelementation 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 Naitve** 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

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

Languages

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