Samu Syrjänen | Student at University of Helsinki

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Field:
Data Science
Machine Learning
Computer Science

Languages:
English
Finnish
Swedish (weak)

Overview

I am looking for a job for the summers of 2024 and 2025. I have experience related to software engineering, data science, or machine learning from 22 university courses. The average grade from those courses is 4.4/5. I have worked as part of a team in a total of 6 different projects. I value learning opportunities and continual growth of skills. Able to work in-office or remotely. After graduation, I see myself in a machine learning related, and team oriented job.

Skills

- Python
- SQL
- Scrum and agile development
- Continuous integration
- Frontend & Backend

- End-to-end machine learning (MLOps) with Kubernetes
- Data handling and processing
- JavaScript/TypeScript
- R (weak)

Experience

Jan 2023 - May 2023

Software Engineering Group Project: Berry Picker Tracker – *University course*
https://marjanpoimijat.github.io/

A phone application which tracks users and prevents them from getting lost in a forest. Users can see the routes of other tracked users. If internet connection is lost, the latest location can be seen by others. More extensive demonstration on our github page.

The course's aim was to simulate a real job. Our group resumed the work of a previous group. We experienced many problems regarding the compatibility of dependencies and other technologies used, such as React Native, Expo, map tiles, and caching.

Our biggest achievements:

- Deploying the app to the university server.
- A working testing version on a real phone (not just emulator).
- Code refactoring: code is easily readable and maintainable (quality)
- A setup script that enables a fast start for a new developer to begin development.
- Updating documentation.
- Updating dependencies.
- All user data is encrypted and safe.
- Ability to add, track, and discard multiple other users at the same time (+ settings and UI for it)
- The map tile source can be changed.
- Ability to switch languages.
- UI overhaul.
- Other quality of life features.

Essential skills:

- Full stack development
- Python (for backend)
- TypeScript (for frontend)
- Group leading
- Understanding customer needs
- Scrum and agile development
- Development in a group
- Software architecture
- Documentation

May 2023 - June 2023

Text Clustering Solo Project: Sortext – *University course*

https://github.com/samusyrjanen/sortext

This app clusters similar texts into groups. It is self-made from the ground up, using no premade algorithms from external libraries. The app uses a dataset of old BBC news articles and takes additional texts as input from the user. It sorts those articles into groups based on text similarity using TF-IDF matrix and k-means clustering algorithm.

Essential skills:

- Python
- Unsupervised Machine Learning (K-means with TF-IDF matrices)
- Software architecture
- Documentation

Mar 2022 - Apr 2022

Database Solo Project: Forum – *University course*

https://github.com/samusyrjanen/forum/tree/main

An online website where users can discuss different topics. Users can create accounts and post threads into the forum. Each thread has a topic and main text. In the thread page, if logged in, the user can like and comment on the thread. Users can delete their own threads and comments. Users can also send private messages to each other and search other users.

Essential skills:

- Python
- HTML
- SQL
- Frontend & Backend
- Software architecture

See more…

Education

Sep 2019 - Dec 2023

Bachelor's Degree in Computer Science – *University of Helsinki*

Sep 2023 - Present

Master's Degree in Data Science – *University of Helsinki*
Graduation expected in: Autumn 2025