

Joseph Ayman

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Education

University of Oslo (UiO)

Expected graduation date: Jun. 2024

B.S. in Mathematics and Informatics | [Link to all courses](#)

Relevant Courses: Algorithms and Data Structure (Java & C++), Machine Learning and Statistical Methods for Prediction and Classification (R), Functional Programming (Lisp), OOP (Python)

Experience

Shepherd

Jun. 2023 - Nov. 2023

Software Engineer Intern

TypeScript, React, Firebase, Mixpanel, GitHub

- Designed and developed Chrome extension popup using TypeScript, and the browser API. Built features such as optional permissions and efficient local storage management.
- Designed and built new UI that are more responsive, managing complex state transitions, and integrating local storage with databases.
- Built a new UI library using StoryBook.

MindKind

Dec. 2022 - Jan. 2023

Fullstack Developer

MySQL, React, TypeScript, HTML, Git, GitHub, Docker, Linux

- Developed new features using Nextjs with React, MySQL and a professional Git/GitHub workflow.
- Automated CI/CD pipelines for unit and integration testing, as well as the deployment the web app, database and DigitalOcean Droplets, GitHub Actions and scripting.

Projects

Data Structures in C++

Sep. 2023

Implement different data structures in C++

C++, Python, GNUMake, SSH, Git

- Implemented and tested dynamic arrays, including operations like append, insert, and delete, with attention to memory efficiency (automatic shrinking).
- Developed a doubly linked list data structure, including methods for element insertion, removal, and access, along with a unique pointer implementation for array nodes.
- Extended the doubly linked list to create a 'LinkedListArray', combining features of both array lists and linked lists for optimized performance.

YapCap

May. 2023

Online video call with limited time to talk

JavaScript, Nextjs, HTML, CSS, TailwindCSS, Git

- Designed video meeting call similar to Google Meets using Agora SDK
- Integrating Spotify's OAuth2, API scopes and endpoints to access user's data for further process with Flask.

Leadership and Volunteering

Insj

Jan. 2023 - Jun. 2023

Business Developer

- Guiding a community of students on how to pursue their business ideas, assemble a team, and raise funding.
- Orchestrating workshops, coding sessions, and events to enhance skills and encourage continuous learning.

Skills

Languages:

Python, C++, SQL, HTML, CSS, JavaScript, TypeScript, Bash, Go

Technologies & Tools:

React, NextJS, Git, Figma, Linux, Docker, CI/CD

Certifications:

[Codecademy 2023 JavaScript Course.](#)