Onur KAYA
Software Developer | Bioinformatician

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I am a software developer, soon to graduate with a degree in Bioinformatics. I have been working as a part time student web developer since June 2021 and I've used various technologies and architectures for both personal and academic / industral projects. I am comfortable working in linux environments and version control / git in an industrial setting.

🎓 EDUCATION

2018 - Present	**BSc. Bioinformatics**, Goethe University, Frankfurt am Main. Expected date of graduation is October 2022.
2017 - 2018	**Non-degree German Language Program**, University of Münster (WWU), Münster. Earned DSH2 certificate.

💼 EXPERIENCE

June 2021 – Present

Web Developer - Part-time, MICROFIN GMBH,
> Worked with Django, PostgreSQL, Javascript stack.
> Refactored major components and views and improved maintainability.
> Created serializers and REST API endpoints.
> Implemented django models that preserve database integrity.
> Created, refactored and maintained unit tests.
> Implemented various front-end widgets for better user experience.
> Provided input about the future development and planning of application logic and semantics from the viewpoint of a developer.
> Closely collaborated with a team of diverse talents.

Django | PostgreSQL | Docker | Javascript / JQuery | Bootstrap

📖 INTERNSHIPS

May 2020 – February 2021

Software Developer, RESEARCH GROUP FOR MOLECULAR BIOINFORMATICS, GOETHE UNIVERSITY,
> Used Java with swing library to contribute to the development of the MonaLisa project.
> Investigated and alleviated bugs that resulted from a major refactoring of the software. Closely collaborated with the QA engineer and developer-in-test in the team.
> Documented all implemented solutions.
> Familiarized myself with best practices of version control and worked with GitLab.

Java | Swing | GitLab

August 2019 – April 2020

Software Developer, RESEARCH GROUP FOR APPLIED BIOINFORMATICS, GOETHE UNIVERSITY,
> Used Python to create a data pipeline to automatize parts of an on going project.
> Familiarized myself with working with linux and implemented bash-scripts.
> Integrated the data pipeline to work with both external software and in-house developed software.
> Familiarized myself with workflow management systems and worked with Snakemake to deliver a reproducible pipeline.
> Collaborated with an interdisciplinary team and took part in scientific communication / correspondance.

Python | Snakemake | Bash | Linux

🖥 Selected Projects

FAMLy   2022

🔗 github.com/onur-ky/FAMLy

FAMLy is a machine learning approach to protein function prediction. It works with functional proteomics data, collected from the KEGG database, and creates and trains binary classifiers. A binary prediction is then obtained from each of these models for a novel query protein, where each prediction represents probability of membership to a certain KO group.

`Python` `Pytorch` `Numpy` `Pandas` `Matplotlib` `Linux` `Bash Scripting`

DA Viewer   2022

🔗 github.com/onur-ky/FAMLy   ↗ Go to the app

DA Viewer is a full stack web application that allows the user to create a data table that shows domain coverage information, styled as a heatmap, for a pathway and KO group. The table is rendered on the server side. The Data is stored in MongoDB. The back-end server is implemented with flask and containerized with docker. The front-end is built with React and TypeScript.

`ReactTS` `Flask` `Docker` `MongoDB`

</> Programming Languages and Technologies

Front-end	**Javascript / Typescript :**	ReactJS, ReactTS, JQuery
Back-end	**Python :**	Django, Flask
	Javascript :	Express, NextJS
Database	**Relational :**	PostgreSQL, MySQL
	Non-Relational :	MongoDB
Data Science	**Python :**	PyTorch, Numpy, Pandas, Matplotlib, Seaborn
Other	Linux, Bash, Git, Jira	

💡 Foreign Languages

ENGLISH : Fluent
GERMAN : Fluent (DSH2, Goethe Certificate C1)
TURKISH : Native

❝ References

References are available upon request.