

# 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 / industrial 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 / correspondence.

Python Snakemake Bash Linux

## SELECTED PROJECTS

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### FAMLY

2022

 [github.com/onur-ky/FAMLY](https://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](https://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

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**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

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

## REFERENCES

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References are available upon request.