

# FARID MUSA

Engineer  
Aspiring Data Scientist  
Software Developer



## CONTACT

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## TECHNICAL SKILLS

### Programming Languages:

Python, R, C/C++

### Databases:

MySQL, PostgreSQL, HDF5

### Web Development:

Django, Bootstrap,  
HTML/CSS/JQuery

### Statistical tools:

Pandas/NumPy, Dask  
scikit-learn, matplotlib

### Engineering Software:

MATLAB, Aspen Plus

### Operating Systems:

Fedora/Linux, Windows

### Typesetting/Markup Language

LaTeX, Markdown

### Graphic Design:

Photoshop, PowerPoint,  
Illustrator

### Other Software

Git, Vim, Jupyter

## ABOUT

With a bachelor's degree in chemical engineering, a master's degree in biotechnology, I am currently studying for a Ph.D. in Food Engineering at Izmir Institute of Technology. Having an engineering degree provides me solid analytical and problem-solving skills. Likewise, during my graduate years, I gained strong research, cooperation, and presentation skills. With great motivation and hard work, I was able to develop comprehensive knowledge in the area of bioinformatics with a focus on microbial genomics. Alongside my academic studies, I constantly preserved my passion and creativity for computer science. With years of self-study, volunteered and freelance work, I have gained extensive knowledge in various fields like web development, databases, data analysis, and more. As a whole, I have built a mixed set of skills that aid me in understanding interdisciplinary problems and cooperating with people of distinct backgrounds.

## CORE QUALIFICATIONS

Bioinformatic Analysis  
Metagenomics  
Multivariate Statistics  
Numerical Modelling

Machine Learning  
Scientific Software Development  
Data Pipeline Design  
Web Development

## EXPERIENCE

### CO-FOUNDER

*SanayIndex.com* | Feb 2021

A new platform for industrial equipment advertisement(built using Django-oscar).

### INTERN

*Sanem Plastik* | Nov 2017 - Dec 2017

### INTERN

*Bareks Plastik* | Jul 2017 - Aug 2017

### FREELANCE WEB DEVELOPER

*Freelance* | Jan 2012 - Jan 2017

Worked as freelance web developer using PHP-MySQL for back-end and HTML5/CSS3/JScript for front-end.

### WEB DEVELOPER

*Samur Medya Digital Agency* | Jun 2016 - Oct 2016

Worked as a turnkey web developer.

### WEB DEVELOPER

*Webtali İş Geliştirme Ajansı* | Jun 2016 - Aug 2016

Developed Customer Relationship Management (CRM) web application for the agency.

### FREELANCE TRANSLATOR

*Zemexpert Tourism Agency* | Jun 2014 - Jan 2015

Worked as a freelance translator of English, Russian and Turkish languages.

## PROFESSIONAL SKILLS

Analyst and Critical-thinker

Creative thinking

Strong computer competency

Good communication skills

Teamwork Skills

(Reliability/Tolerance)

"*Docendo discimus*"

## LANGUAGES

Azerbaijani: Native

Russian: Fluent

Turkish: Fluent

English: Fluent

## EDUCATION

### PHD, FOOD ENGINEERING

Izmir Institute of Technology | 2021 - 2025

Thesis with focus on Food Authenticity (Ph.D. Thesis)

PhyloMAF - NEXT GENERATION PHYLOGENETIC MICROBIOME ANALYSIS FRAMEWORK (Ongoing)

*Key-points: address shortcomings of the microbiome field, contribute to the microbiome research community*

### MS, BIOTECHNOLOGY AND BIOENGINEERING

Izmir Institute of Technology | 2018 - 2020

BIOINFORMATIC ANALYSIS AND BIO-STATISTICAL MODELLING OF GENETIC INTERACTIONS BETWEEN MICROBIOTA AND HOST (MS Thesis, Ongoing)

*Description: Investigate host-microbiota interactions "Drosophila Genetic Reference Panel" samples using micoribome-GWAS techniques.*

### BS, CHEMICAL ENGINEERING

Izmir Institute of Technology | 2011 - 2017

Engineering Design and Economics: Production of Dimethyl Ether (DME) from Natural Gas

*Key points: market analysis, mathematical modeling, automated Aspen Plus process simulations, and optimization via MATLAB.*

DESIGN AND SYNTHESIS OF NANO DRUG DELIVERY VEHICLES (BS Thesis)

*Description: The project involved the preparation and characterization of cytotoxic anti-cancer liposome agents loaded with different alkaline solutions.*

## SELECTED CONFERENCES

### DJANGOCON - 2020

DjangoCon Europe | 2020

### ECCB - 2020

European Conference on Computational Biology | 2020

### MEEV - 2020

Virtual Meeting on Microbial Ecology and Evolution | 2020

Poster: Application of PhyloMAF

### HIBIT-2018/19/20

International Symposium on Health Informatics and Bioinformatics 2018&2019&2020

Poster: PhyloMAF - Next Generation Phylogenetic Microbiome Analysis Framework

### UKMK-2016

International Chemical Engineering Congress | 2016

Poster: PANCAR - An Innovative Approach Towards A Wearable Artificial Pancreas

## COURSES AND TRAINING

### INTRODUCTION TO GENOMIC TECHNOLOGIES

COURSERA | By Johns Hopkins University | Summer 2018

### EVOLUTIONARY GENOMICS APPLIED WORKSHOP

ECOevo | Winter 2018

In three days as a team, we developed a bioinformatic pipeline for processing and analysis of raw NGS yeast genome reads.

### DATA SCIENCE MATH SKILLS

COURSERA | By Duke University | Spring 2021

### VIM MASTERCLASS

UDEMY | By Jason Cannon | Spring 2021

## VOLUNTEER EXPERIENCE

### WORK AND TRAVEL USA

Summer 2015

### MICROBIOME DATA ANALYSIS TEACHING

Izmir Insitute of Technology | Summer 2019

## REFERENCES

References available upon request.