

Zohan Syah Fatomi

Curriculum Vitae

PERSONAL DETAILS

Phone +62 857 2680 4110
Mail zohansyahfatomi@gmail.com
LinkedIn <https://www.linkedin.com/in/zohan-syah-fatomi>
GitHub <https://github.com/zohansyahfatomi>

PORTOFOLIO

1. Publishing Python and Numerical Computation book ISBN: 978-602-386-957-2 ([shorturl.at/msGHU](#)).
2. Publishing an international journal in Computational Condensed Matter ([shorturl.at/bhrGY](#))
3. Attending International Symposium on Computational Science 2021 Kanazawa University (Japan) as Presenter ([shorturl.at/jtT58](#))
4. Attending International Conference ICMA-SURE 2022 Jenderal Soedirman University (Indonesia) as Presenter ([shorturl.at/htAN3](#))
5. Attending International Conference ICST 2022 Gadjah Mada University (Indonesia) as Presenter ([shorturl.at/cgEF2](#))

EDUCATION

Kanazawa University (Japan)

2019-2021

Applied Mathematics and Computational Science

Research Focus: Material properties prediction, Machine Learning, Deep Learning

Universitas Gadjah Mada (Indonesia)

2014-2019

Physics

Research Focus: Material science, Numerical Simulation, Density Functional Theory

WORK EXPERIENCE

Research Assistant

1/9/2022-
Now

(Jenderal Soedirman University)

1. Performing computational science research with lab members.
2. Conduct academic publication in an international journal.
3. Detail tools: Python, Mathematical modeling, Numerical Calculation, Deep Learning.

Python Developer

12/22/2021-
31/8/2022

(Bitwyre Exchange)

1. Discussion with the team to deliver features exchange.
2. Building crypto exchange algorithm to provide low-latency transactions.
3. Fix bugs, build testing, and manage micro-service system Python-related projects.
4. Making endpoint based on event distributive system.

5. Detail tools: Python, SQL, Apache Kafka (Redpanda), Flask, Git, Pandas, Docker, TensorFlow, Keras, Scikit-Learn, matplotlib, ggplot.

Research Assistant

01/21-04/21

Saito Lab. (Kanazawa University)

1. Discussion with Lab. members to set the research goals.
2. Collaborate with Lab. members to process data obtaining, data analysis, and data visualization.
3. Final presentation of the International Symposium on Computational Science 2021, Kanazawa University, Japan (hal.s.kanazawa-u.ac.jp/iscs2021.html).

Research Assistant

08/18-07/22

Computational Physics Lab. (Universitas Gadjah Mada)

1. Teaching and tutoring of python programming and numerical analysis to the Lab. members.
2. Publishing educational book of "Pemrograman dan Komputasi Numerik Menggunakan Python" UGM PRESS, ISBN: 978-602-386-957-2 (<https://www.tokopedia.com/ugmpressonline/pemrograman-dan-komputasi-numerik-menggunakan-python>).
3. Publishing international reputable journal of Computational Condensed Matter (<https://doi.org/10.1016/j.cocom.2022.e00708>)

KEY SKILLS

Data Visualization and Storytelling

Able to generate a dashboard and deliver insight from data for business decision-making in platforms such as Google Sheets.

Numerical Analysis and Machine Learning

Able to make a numerical simulation or model for real-world problems by using programming such as Python. Able to perform machine learning on a real problem such as estimation, forecasting, classification, and clustering using Machine Learning Library.

ETL Process

Able to extract, transform and load data from the database into the table using Python and SQL.

RELEVANT INFORMATION

Math Skills: Numerical Calculation, Linear Algebra, Calculus, Statistic, Probabilistic, Discrete Mathematics, etc.

Programming Language: Python (Numpy, Pandas, Scipy, Matplotlib, Scikit-Learn, Pytorch, Flask, etc), Java (Minor), C++ (Minor)

Data Visualization Tools: Excel, Google Sheets, Matplotlib, Tableau

CI/CD: Git, Github, Docker, Apache Kafka (Redpanda)

Database: SQL/NoSQL, PostgreSQL

Machine Learning: Scikit-Learn, Pytorch, TensorFlow

Language: English, Indonesia, Japanese (Minor)