Zohan Syah Fatomi

Curriculum Vitae

PERSONAL DETAILS

Website	zohansyahfatomi.github.io
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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 Univeristy (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, Machine Learning, 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`).

KEY SKILLS

Numerical Analysis and Machine Learning
Able to make a numerical simulation or model for real-world problems by using programming. Able to perform machine learning techniques such as supervised learning, unsupervised learning, reinforcement learning, and deep learning.

Data Handling and Analysis
Being proficient in handling and analyzing data includes data preprocessing, cleaning, feature engineering, and exploratory data analysis (EDA).

Neural Networks
Understanding various neural network architectures (e.g., convolutional neural networks, recurrent neural networks)

Natural Language Processing (NLP)
Able to demonstrate NLP techniques such as text classification, sentiment analysis, and named entity recognition)

Computer Vision
Able to perform computer vision involves extracting information from images and videos such as classification, object detection, image segmentation, and image generation

RELEVANT INFORMATION

Math Skills: Numerical Calculation, Linear Algebra, Calculus, Statistic, Probabilistic, Discreate 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
Langauge: English, Indonesia, Japanese (Minor)