MUHAMMAD REZA FAHLEVI, S.Kom

(+62) 812-7548-0237 ⋄muhammadrezafahlevi666@gmail.com
⋄Github : github.com/m-RezaFahlevi⋄Website : https://m-rezafahlevi.github.io/mrfahlevi/

EDUCATION

Universitas Sumatera Utara (Medan, Sumatera Utara) *Aug 2018 - 2022*

- Bachelor of Computer Science (Sarjana Komputer — **S.Kom.**)
- GPA (IPK): 3.56 / 4.00 (3,56 / 4,00)
- *Department of Computer Science*, Faculty of Computer Science and Information Technology.
- Concerntration: Numerical Analysis/Algorithms | Heuristic Method | Evolutionary Computation
- Favorite classes : Design & Analysis of Algorithms | Artificial Intelligence & Intelligence System | Heuristic Method | Probability and Statistics | Numerical Analysis | Image Processing | Modeling Technique and Simulation | Calculus | Discrete Mathematics | Automata — Grammar and Language

RESEARCH

Paper

- Finding Heuristical Value of Z, T, Chi Square, and F Based On Dynamic Significance Level. https://repositori.usu.ac.id/handle/123456789/96560

Published

- Muhammad Reza Fahlevi, & Budiman, M. A. (2021). Computing the Value of Pi in the Manner of Lambda Function with R Statistical Programming Language. Data Science: Journal of Computing and Applied Informatics, 5(1), 39-48. https://doi.org/10.32734/jocai.v5.i1-5556

WORK EXPERIENCE

Badan Pusat Statistik Kab. Kampar - Software Developer Intern *Jul - Aug 2021*

- *Build a software for Desa Cinta Statistik Desa Laboy Jaya using R Shiny framework*

PROJECTS

ShinyImageProcessing: An image processing app simulation contain bluring, RGB filtering, Median filtering, 3 × 3 kernel convolution, generate 3 type of noise in images, and edge detection, ShinyImageProcessing is created by using framework for creating web application using R code, shiny.

RCGA: A real-coded genetic algorithm for solving real-parameter optimization problem for function in R^3, written in R and Python.

ilkom: R packages to find critical value of statistics z, t, $\chi 2$, and f for dynamic significance level by using heuristics procedure based on binary search, bisection method, and tabu search.

VNS: Minimizing error sum of square (SSE) of multi-linear regression model using Variable Neighborhood Search for continuous optimization problem.

TECHNICAL SKILLS AND INTEREST

Languages	C++ | R | Python | Julia | LaTeX | MySQL | Javascript | HTML and CSS | Bootstrap | Java | PHP
Software & Tools	Microsoft Office/Office 365 (MS. Word, MS. Excel, MS. Powerpoint) | LyX High Level LaTeX Frontend | RStudio |Visual Studio Code | Neovim | R shiny | dplyr | ggplot2 | plotly | pandas | Jupyter |
Current Interest	Numerical Algorithms | Probability & Statistics | Pattern Recognition and Machine Learning | Design & Analysis Algorithm
Awards	Participant in Province Science Olympiad for Chemistry, year 2017 | Participant in Province English Debate Competition | *Cum Laude* 2022