

# MUHAMMAD REZA FAHLEVI

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## EDUCATION

- University of Sumatera Utara (Medan, Sumatera Utara)** *Aug 2018 - 2022*
- Bachelor of Computer Science (Sarjana Ilmu Komputer — S.Kom.)
  - GPA (IPK): 3.56 / 4.00 (3,56 / 4,00)
  - 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

- 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 blurring, RGB filtering, Median filtering,  $3 \times 3$  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

**TSP:** Solving Travelling Salesman Problem (TSP) by using Simulated Annealing (SA) and Tabu Search (TS) algorithm

## TECHNICAL SKILLS AND INTEREST

<b>Language</b>	R   Python   Julia   C++   LaTeX   MySQL   Javascript   HTML and CSS   Bootstrap   Java
<b>Software &amp; Tools</b>	LyX High Level LaTeX Frontend   RStudio   Visual Studio Code   VIM   R shiny   dplyr   ggplot2   plotly   pandas   Jupyter
<b>Current Interest</b>	(Meta) Heuristic Method   Probability & Statistics   Linear Algebra   Pattern Recognition and Machine Learning   Data Analysis   Design & Analysis Algorithm   Deep Neural Evolution
<b>Awards</b>	Participant in Province Science Olympiad for Chemistry, year 2017   Participant in Province English Debate Competition