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Nur Rohman Widiyanto

Summary

A lifelong learner who has a big passion for information technologies. I have excellent technical skills and an academic background in engineering (software and computer network), statistics, and machine learning. I also have experience as a Lead Network Engineer at a startup company previously. Specializing in software development, artificial intelligence, distributed system, cloud and grid computing. With a can do attitude, I ready to accepts new challenge, try to adapt quickly, and strive to give real impact to the organization.

Basic Information

Gender M

Male

Date of Birth

26th March 1991

Place of Birth

Lamongan

Marital Status

Single

Nationality

Indonesia

Languages

Indonesian (Native), English (Fluent).

Professional Experience

July 2019 – Assistant Trainer, Digital Talent Scholarship 2019 FGA (Fresh Graduate Academy), Insti-July 2019 – tut Teknologi Sepuluh Nopember & Ministry of Communication and Information Technology,

Surabaya.

Assisted the main trainer to deliver courses about the basics of Python for Artificial Intelligence in AI class and MongoDB databases in IoT class.

Nov 2018 – Nov 2018 Assistant Trainer, Digital Talent Scholarship 2018, Institut Teknologi Sepuluh Nopember & Ministry of Communication and Information Technology, Surabaya.

Assisted the main trainer to deliver courses about NLP (Natural Language Processing).

Sept 2017 -

Research Assistant, Telematics Laboratory (B. 201), Institut Teknologi Sepuluh Nopember,

Mar 2019 Surabaya.

Helped the lecturers to research program and teaching activity, handled network operations and servers in the laboratory.

Sept 2014 -

Lead Network Engineer, PT. Niltava Teknologi Indonesia, Surabaya.

Aug 2016

Handled network operations, internet connection troubleshooting, backend program operation and deployment on cloud servers (AWS EC2), setup of local testing server with KVM. Jujucharm from Ubuntu was used to deploy backend program in multiple servers.

Jan 2013 –

Student Internship, PT. Equnix Business Solution, Jakarta.

Feb 2013

Created software to monitor and control the network with C socket programming as back-end process and web-based interface.

Feb 2012 -

Assistant Coordinator, B. 201 (Telematics Laboratory) and other Computer Engineering and

Mar 2013

Telematics Laboratories, Institut Teknologi Sepuluh Nopember, Surabaya.

Manage and coordinate research activity from laboratory assistant members or development groups, laboratory events or training, and laboratory sustainability (Housekeeping, server and internet connection maintenance).

Sept 2011 – Laboratory Assistant, B. 201 (Telematics Laboratory) and other Computer Engineering and

Sept 2015 Telematics Laboratories, Institut Teknologi Sepuluh Nopember, Surabaya.

Became laboratory assistant member (Basic Programming and Digital Circuit), conduct research, held events (training and exhibition), housekeeping and maintain laboratory equipment and sustainability (Servers, Tools, and Internet Connection).

Education

Feb 2017 - Master of Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, GPA: 3.91/4.00.

Sep 2020 Department of Electrical Engineering, with Multimedia Intelligent Network Study Program.

Aug 2009 - Bachelor of Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, GPA: 3.11/4.00.

Sep 2015 Department of Electrical Engineering, focused in Computer Engineering and Telematics.

Bachelor's Degree Final Project

Title Virtual Machine Performance Measurement on Cloud Computing

Supervisors 1 Mochamad Hariadi, ST., M.Sc., Ph.D.

Supervisors 2 Christyowidiasmoro, ST., MT.

Description Built cloud servers to provide virtual machine (VM) as main services or IaaS with OpenStack. The VM was measured with benchmark programs to obtain the data about its performance

metrics relative to its platform specifications (CPU, RAM and storage).

Master's Degree Final Project

Title The Calculation of Player's and Non-Player Character's Gameplay Attribute Growth in Role-Playing Game with k-NN and Naive Bayes.

Supervisors 1 Prof. Dr. Ir. Mauridhi Hery Purnomo, M.Eng.

Supervisors 2 Dr. Supeno Mardi Susiki Nugroho, ST., MT.

Description Created program to generate the RPG player character or enemies game attributes based on k-NN and Naive Bayes algorithm then the result was classified with Neural Network Multi-class Classification. This project was created using Python programming language.

Computer Skills

Languages C/C++, Python, JavaScript, NodeJs, Bash Shell Scripting.

Artificial K-NN (Nearest Neighbor), Bayesian Method, Cluster Analysis, Regression Analysis, Classification

Intelligence Analysis, Decision Tree, Genetic Algorithm, Neural Network, Deep Learning.

Databases MySQL, MongoDB, Redis.

OS Debian, Ubuntu, CentOS, FreeBSD, OSX, Windows.

Network and Cisco and Huawei Hardware (Router and Switch) Operation, Mikrotik Router, Linux Network

Linux Operations (Gateway and Other Servers), Linux Commands Shell, Cloud Computing, OpenStack

Operations Cloud Framework, Virtualization (VirtualBox, KVM, and VMware).

Office Tools LATEX, LibreOffice, Ms. Word, Ms. Excel, Ms. Power Point.

Simulator Matlab, CircuitMaker, Cisco Packet Tracer, Huawei eNSP.

Misc. HTML, CSS, Bootstrap Framework, Git, Open Computer Vision Library (OpenCV), Computer Hardware, Computer Performance Benchmarking, Software Development Life Cycle (SDLC), Agile Project Management.

Achievements

May 2012 **1st Place on ITS Hacking Competition 2012**, Institut Teknologi Sepuluh Nopember, Surabaya.

This competition purposed to got the vulnerability of the one of servers in ITS.

April 2013 **2nd Place on GKPKM (Gelar Karya Program Kreatifitas Mahasiswa) ITS EXPO 2013**, Institut Teknologi Sepuluh Nopember, Surabaya.

This competition was similar or preparation for national science fair but at internal university level.

Sept 2013 Finalist on PIMNAS (Pekan Ilmiah Mahasiswa Nasional) XXVI, Research, Technology and Education Ministry, Mataram University, Mataram.

This competition was indonesian national science fair for undergraduate university student.

Certification

Nov 2014 **Huawei Certified Network Associate (HCNA)**, Huawei Technologies Co. Ltd., PUSTIKNAS (National ICT Center), South Tangerang.

Credential ID: 010200100495806019171617

Sept 2020 **Agile Crash Course: Agile Project Management; Agile Delivery**, *Udemy*, Online. Credential ID: UC-855d2519-7f1a-4a4f-9019-6dac452ab59b

Publications

IEEE F. Tsabita, W. N. Rohman, Rosmaliati, B. P. V. Lystianingrum and M. H. Purnomo,, "Semi-Supervised Learning Optimization Based on Generative Models to Identify Type Of Electric Load at Low Voltage", 2018 International Seminar on Intelligent Technology and Its Applications (ISITIA), Bali, Indonesia, 2018.

pp. 209-214. doi: 10.1109/ISITIA.2018.8711235

IEEE N. R. Widiyanto, S., Nugroho, S. M. S., and M. H. Purnomo, "The Calculation of Player's and Non-Player Character's Gameplay Attribute Growth in Role-Playing Game with K-NN and Naive Bayes", 2020 International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM), Surabaya, Indonesia, 2020.

pp. 103-110, doi: 10.1109/CENIM51130.2020.9297945

Related Projects

Redis Benchmark Redis loads with random content using Node.js and bash scripting to measure memory **Benchmark** requirement and database down behavior.

Deblurring An assignment from Genetic Algorithm class in Masters degree, about deblurring an image with genetic algorithm implementation. This project was created used MATLAB. (URL Link: github.com/rohwid/debluring-image-genetic-algorithm).

Camera Color Color

EMG identification with

K-NN and

Naive Bayes

Created a program to identify the EMG (Electromyography) as a biometrical feature from the human. The program read and classify the datasets from human EMG and the name as the label.

When it's given an input about human EMG data, the program will be classified who has the EMG data as a result. The EMG data from people that became an input came from the same people in the datasets, it separated about 70% for training and 30% for testing. This project was created used MATLAB. (URL Link: github.com/rohwid/emg-classification).

Auto Nvidia A script to install NVIDIA drivers, CUDA, CUDNN and NCCL automatically in Linux to make deployment process more faster before do the deep learning training process with GPU. (URL Link: github.com/rohwid/auto-nvidia-cuda-driver).

Emotion Create the emotion detection model with VGG16. The goal was to detect 7 emotions (neutral, Recognition happy, sad, surprise, angry, fear and disgusted) but in this project only 5 emotion (neutral, happy, sad, surprise, and angry) which stable enough when detect the people emotions. (URL Link: github.com/rohwid/emotion-recognition).