M. Ariandy Noviar

I'm a Computer Scientist who falling in love with Math, IoT, Embedded System and Robotic Engineering. Currently, I learn about DS/ML-related. Still digging into low-level computing. I have a plan to raise my skill in Haskell too if I got enough sabbatical.

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Male

CRESCAT VERA SCIENTIA ET SAPIENTIA VITA EXCOLATVR

School

2007–2010 **Vocational High School**, *SMK Negeri 7*, Samarinda, *Software Engineering*.

Higher Education

2012–2018 **Baccalaureate**, *STMIK Widya Cipta Dharma*, Samarinda, *Cum Laude*.
S.Kom in Information Technology. GPA : 3.69

Thesis

Title *Analytical Approach for Prototype Design of Robotic Arm : Forward Kinematics and Analytical Inverse Kinematics Algorithm based on Arduino & Android*

Supervisors Salmon, S.Kom., M.Kom & Kusno Harianto, S.Kom., M.Kom

Description Thesis submitted in partial Fulfillment of the Requirements for the Degree of Sarjana Komputer(S.Kom.) in Information Technology Program. 2018

Non-Formal Education

Jul'20 – Dec'20 **Purwadhika Data Science**, *Bandung, IDN*.
Trained as Data Analyst, Data Scientist and Machine Learning Engineer.
In general, the participants learn about data acquisition, data wrangling, data analysis, data visualization, build Machine Learning model, and deploy the model into the "from-scratch" dashboard.

Jun'19 – Aug'19 **Arkademy**, *Tangerang Selatan, IDN*.
Trained as Fullstack Mobile Developer.
Made a several app clone (FB, ChatApp, InterviewApp) with React Native, ExpressJS/AdonisJS.

Experience

Aug'19 – May'20 **Software Engineer & Automated Tester**, *PT. Modal Rakyat Indonesia*, Jakarta Selatan, IDN.
Most of my responsibility was to be REST API Engineer of Backoffice & Collection Dashboard APIs and maintain the automated testing for Frontoffice web.

Jan'11 – Feb'12 **IT Support**, *PT.Metcom Mitra Sejati**, Balikpapan, IDN.
*IT Outsourcing Service Provider.
Hired as IT Support for PT Trakindo Utama Samarinda (Outsourced)

Languages

Indonesia	Native	-
English	Listening A2, Reading B2, Spoken Interaction A1	
	Spoken Production B1, Writing B2*	*TOEFL-Like: 530*
Esperanto	Reading B1, Writing B1*	-

* The different levels of language self-assesment as defined by the *Common European Framework of Reference for Languages*

CS & CE skills

Logic subdiscipline	Formal Logic, Propositional Calculus, λ-Calculus, Finite State Machine, Floyd-Hoare Logic
Programming Paradigm	Functional Programming, Structured, Non-structured, Event-Driven, Procedural, Stack-oriented, Logic Programming, Quantum programming
Flowchart	Conventional Flowchart, Nassi-Shneiderman Diagram, Drakon Diagram
Math-related	Differential Calculus, Discrete Mathematics, Basic Quantum Computation, Operation Research, Artificial Intelligence, Neural Networks, Fuzzy Logic, Basic Game Theory, Basic Statistics
Other	Computer Organization & Architecture, Data Structure, Embedded Systems, IoT, Cryptography, SDET

Technical skills

Programming	Rust, C, C++, Python, Bash, NASM x86_64, 6502 ASM, Javascript (vanilla), SML/NJ, Pascal/Lazarus, Prolog, Forth, Racket
DS/ML Tools	numpy, pandas, matplotlib, seaborn, plotly, pingouin, scikit-learn, pytorch, keras, nltk
Testing Tools	Cucumber, Testcafe, Ava, Sinon, Frisby
Database	EdgeDB, MongoDB, MySQL
Linux CLI	Arch-based, Gentoo-based, Debian-based, Tiny Core-based
BSD	FreeBSD, PC-BSD, MidnightBSD
Single Board	Raspberry Pi 2/3
Microcontroller	Arduino, NodeMCU8266
Embedded System	OpenWRT, Buildroot
Static sites	Jekyll
Text Editor	Basic Vi/Vim, Markdown
Math Software	Wolfram Mathematica, Sage, Jupyter

Version Control	Git
Scientific Docs	LaTeX, Katex, Mathjax

DS/ML Projects

2020	Data Analysis on Global Covid-19 dataset (Purwadhika Mid-Project)
2020	Build a model on an attrition problem which can be used for predict employees who decide to leave. (Purwadhika Final Project)
2021	Global Warming analysis
2021	PIMA Diabetes with PyTorch
2021	Face Mask detector (on progress)
2021	Global Report of Covid-19 vaccine analysis (on progress)

Voluntary on Open Source Project

2014 Android PirateBox v.0.5.5 beta

Jochen R. (JoschiFun2Code) project

Contributed as Indonesian web interface translator (a.k.a ooxyz)

https://github.com/joschi70/AndroidPirateBox/blob/master/ChangeLog.txt

2021 Easy Rust

David MacLeod (mithridates/dhghomon) project

The book itself is a textbook for the people who want to learn Rust Programming language in simple English. And I translate it into Indonesian language (under MIT License)

Contributed as Lead Indonesian translator

You can see the full information right here: bit.ly/3fhGOLX and https://bit.ly/2T5gM5Z

Another Projects

2014	SlenderServer (PAWServer mods)
2014-2015	Hyperboria node (cjdns-based)
2015	Temperature Monitor with Kalman Filter
2016	Lunar Phase Viewer on Android (on Intel XDK)
2016	Personal PirateBox Server
2017	GPS Tracker with UBlox and Arduino
2017	Simple Home Automation IoT-based (NodeMCU ESP8266)
10/2017	Automated Cat Laser
on progress	6DOF Robotic Arm with Jacobian Inverse Kinematics
on progress	Aharon-11 : SAP-1 Architecture Explanation (Book)

Interests

Internet Culture	Copyleft, DIY and Autodidacticism, Open Source/FLOSS Culture, Pirate Movement, Freedom of Speech, Internet History
Reading	I read a lot of books and learn other fields/disciplines autodidactly. I like to learn Logic, Analytic Philosophy, Classic Literatures, various subjects on History (focus on Middle East, Persian, Ancient Norse, and Military Technology), Abrahamic Theology and little bit of Economy
STEM	Can't take my eyes off of newest information about technology state of the art (AI, Blockchain, Robotics, Low-Level Computing)
Programming	Still digging into Haskell, Rust and Zig
Language	I interest in Latin and Esperanto