



**ARRIVAL
DWI
SENTOSA**

Bandung, Indonesia

+6282126603538

arrivaldwisentosa@gmail.com

<https://www.linkedin.com/in/arrivaldwisentosa>

<https://github.com/arrivaldwis>

**Professional
Profile**

- I was born in Bandung, Indonesia. passionate about teaching and exploring technology, building a system to solve a problem. I have a 9 years total experience in Software Development as a Software Engineer, Software Architect, Product Manager, Machine Learning Engineer and DevOps Engineer. I've been worked for some company (attached below) to explore and learn what the industry actually needs and learn from the best.

Education

- 2019 - 2022
(M.T) Institut Teknologi Bandung (Informatics)
Research Group: Intelligent System
Thesis Title: Predicting the Risk of White Spot Syndrome Virus in Shrimp with a Machine Learning and Expert Knowledge Approach
- 2017 - 2019
(B.Sc) Beijing Institute of Technology (Computer Science and Technology)
Thesis Title: Self-Learning Personal Financial Assistant Android Application using MVVM Architectural Pattern
<http://dx.doi.org/10.13140/RG.2.2.11845.81125>
- 2015 - 2019
(S.Kom) Universitas Mercu Buana (Informatics)
Thesis Title: Self-Learning Personal Financial Assistant Android Application using MVVM Architectural Pattern
<http://dx.doi.org/10.13140/RG.2.2.11845.81125>

Professional Experience

- **Institut Teknologi Bandung** (<http://www.itb.ac.id/>)
from July 2023 – Now
As Assistant Lecturer, School of Electrical Engineering and Informatics
Job descriptions: Being an Informatics lecturer at ITB, Research group Informatics
Lecturing for Informatics undergraduate students.
- **Kementerian Pendidikan dan Kebudayaan** (<https://kampusmerdeka.kemdikbud.go.id/>)
from February 2022 – December 2023
As Manager of Data and Information Kampus Merdeka
Job descriptions: As Product Manager of 4 different program in Ministry Education initiative (Praktisi Mengajar, Kampus Mengajar, Cerita Kampus Merdeka, IISMA). Managing relationships with stakeholders (program team) and the developer team to fulfilled the needs of system each program, starting from initial project, brainstorming, developing PRD, product prioritization, assign backlog items for developers and monitoring daily basis to ensure development still on track. Lastly, do analytics and exploring data metrics that generates from the platform using some analytics tools like Amplitude, Google Analytics and Umami to get an insight of next development/improvements.
- **Universitas Multimedia Nusantara** (<http://www.umn.ac.id/>)
from April 2022 – May 2023
As Part-Time Lecturer, Fakultas Teknik dan Informatika
Job descriptions: Being part-time lecturer at Multimedia Nusantara University, Faculty of Informatics and Engineering, Department Informatics. Lecturing 4 subjects including (Expert System, Artificial Intelligence, Algorithm and Data Structure and Deep Learning) for undergraduate students.
- **PT Transformasi Digital Laut** (<http://www.sgara.id/>)
from July 2017 – August 2022
As Co-Founder and CTO
Job descriptions: Building the tech infrastructure from the scratch for an aquaculture startup focusing on Shrimp Farming called “Sgara”, bridging the stakeholders needs to tech, designing the infrastructure, research and defining best technology, managing the tech team consists of 5 members, direct responsible to CEO. With very efficient team proudly we’ve been built more than 5 platform (SgaraBook, SgaraHub, SgaraHatchery, SgaraSupply, SgaraERP, etc.)

- **VE Capital Asia Pte Ltd** (<https://vecapital.asia/>)
 from June 2020 – September 2020
 As Senior Mobile Developer
 Job descriptions: As a mobile developer, build some of projects for android and ios with such of newest frameworks/technology like Flutter, React and Go and deliver it as soon as possible to the clients. Working with small team (3 member, including product manager) we've been successfully built 3 apps for client in 3 months.
- **Indonesia Diaspora Connect** (<https://www.diasporaconnect.id/>)
 from September 2017 – Januari 2020
 As Co-Founder and Global Lead Technology
 Job descriptions: As a Co-Founder and CTO at the beginning, I've responsibility to building all tech from scratch. Indonesia Diaspora Connect (IDC) is a social apps for Indonesian abroad to communicate and sharing, we've been built the platform for Web, Android and iOS in 4-month development with 3 members of tech teams. Also, we got some achievement for this innovation, one of the best as the 1st Winner Alcatel Lucent Hackathon 2018.
- **Perhimpunan Pelajar Indonesia Tiongkok** (<https://ppitiongkok.org/>)
 from June 2018 – June 2019
 As Deputy Director of Media and Technology
 Job descriptions: Indonesian student community in China (PPIT) is a non-profit organization that gathers all Indonesian student that studying in China, we build the social channel and platform to giving any information needed by Indonesian students especially from the embassy. We successfully built "One data portal" for Indonesian students in China to help them find and share all information needed, the platform built with 2 members including me as Developer in 1 months.
- **MEKAR.ID** (<https://www.mekar.id/>)
 from September 2017 – January 2018
 As Android Developer
 Job descriptions: Building the Peer-to-Peer Lending Apps called "MEKAR" an initiative program from Sampoerna. I was responsible to build the android apps that implementing such tools like Firebase, Firestore, MVVM, Dagger and Retrofit.
- **PT. Iman Teknologi Informasi** (<https://www.xecureit.com/>)
 from Mei 2015 – July 2015
 As Android Developer

Job descriptions: Building android apps of secure end-to-end encryption chat apps called “PesanKita” now changed to “Palapa”. Based on telegram and moved to Signal infrastructure with some addition such as user experience improvements.

- **PT. GITS Indonesia (<http://gits.co.id/>)**

from July – September 2014

As Android & iOS Developer

Job descriptions: Building an iOS and Android apps with native technology, using Java for Android and Objective-C for iOS back then. Initiate to exploring Swift and Kotlin in beta, I’ve been handling some projects for example registration part of Tiket.com.

- **Yoqiza Interactive (<http://jarvis-store.com/>)**

from October – November 2013

As Web Developer – Back End Laravel Framework

Job descriptions: Building an Back-end for startup e-commerce using Laravel 4, focusing in part of transactions.

Projects

- Name: Shrimp White Spot Syndrome Virus Detection
Desc: Computer Vision technology to detect a physical symptom of WSSV on shrimp to prevent the spreading of virus.
Role: Research with Prototype
Technologies: Python, OpenCV, Keras, Tensorflow, Pandas, Flask, Deep Learning, YOLO
- Name: Toxic Player Detection (NLP)
Desc: A machine learning model to detect whether a Dota 2 player is toxic or not, based on recorded conversations in one game.
Role: Research with Prototype
Technologies: Python, Named Entity Recognition, Keras, Tensorflow, Pandas, Word Embedding
Link: <https://github.com/arrivaldwis/DOTA2-ToxicPlayerDetection>
- Name: Shrimp (Larvae) Hatcheries Counting
Desc: Computer Vision technology to counting a shrimp larva that have accuracy above 90% and capability to detect an overlap larvae.
Role: Research with Prototype
Technologies: Python, OpenCV, Keras, Tensorflow, Pandas, Flask
- Name: Indonesian Diaspora Connect
Desc: Social media platform that acts as a facilitator between the Government and the best Indonesian talents all around the world.
Role: Global Technology Lead (Mobile Developer)
Technologies: NoSQL, Android, Java, MVVM Pattern, Android Studio, Navicat, PHPStorm, Fabric
Link: <https://play.google.com/store/apps/details?id=com.id.connect.diaspora>
- Name: Custom C++ and Own Programming Language Compiler
Desc: Designing and build a C++ and own programming language with the compiler for research purpose.
Role: Research
Technologies: MARS, Java, C++, YAML, Assembly
Link: <https://github.com/arrivaldwis/BIT-MiniCC>
- Name: IoT of Shrimp Autofeeder with Controller Apps
Desc: Designing and build an autofeeder for shrimp that integrated with mobile apps for monitoring and controlling amount of feed give to the pond.
Role: Research
Technologies: C++, Arduino, PostgreSQL, Android, Java, Firebase, Realm
Link: <https://github.com/arrivaldwis/SGFeed>
- Name: Museek
Desc: Discover music around your location and suggest best music for you
Role: Android Developer
Technologies: NoSQL, Android, Java, MVC Pattern, Android Studio, Firebase, Fabric, Realm
Link: <https://play.google.com/store/apps/details?id=id.odt.museek>

- **Nama:** UangKu
Desc: UangKu is personal finance management apps to help manage user cashflow
Role: Android Developer
Technologies: SQLite, Android, Java, MVC Pattern, Android Studio, Fabric
Link: <https://play.google.com/store/apps/details?id=odt.aliqornan.uangku>
- **Name:** Mona
Desc: The best personal finance manager and expense tracker.
Role: AI and Mobile Developer
Technologies: NoSQL, Realm, Firebase, Android, Kotlin, MVVM Pattern, Android Studio, Intent Classification, Entity Extraction
- **Name:** PPI Tiongkok
Desc: PPIT Mobile Apps is an application for Indonesia Student or who will come and study in RRC, this apps include all about information and activities of Indonesian Student and also a community.
Role: Project Manager
Technologies: NoSQL, Flutter, Dart, Android Studio, Android, MVC Pattern
Link: <https://play.google.com/store/apps/details?id=id.ppit.mobile>
- **Name:** iWatchYou
Desc: iWatchYou is a Tools to Monitoring Children Activity when using a Computer
Role: Android and Desktop Developer
Technologies: NoSQL, SQLite, Android, Java, Android Studio, Javascript, Firebase, PHP, AngularJS, Socket.io

Linguistic Skills

- English Private CV & Presentation (MMC/ENG/2216/X/12)
- TOEFL (589)

Awards

- 1st Winner Alcatel Lucent Enterprise Hackathon, Strasbourg – France, 2019
- Medallion for Excellence, WorldSkills Competition in field “IT Software for Business”, WorldSkills International Abu Dhabi, UAE, 2017
- Medallion for Excellence, ASEAN Skills Competition in field “IT Software for Business”, WorldSkills International Kuala Lumpur, Malaysia, 2017
- Penerima Beasiswa Indosat Ooredoo, 2017
- 1st Winner, Samsung Indonesia Next Apps 4.0 (Samsung SDK Challenge), 2017
- 2nd Winner, XL Axiata IoT Agnosthings Smart Home Challenge, 2016
- 2nd Winner, Indosat Ooredoo Innovation Wireless Contest 10, 2016
- 2nd Winner, Windows App Competition, Politeknik Negeri Bandung, 2016
- Best Graduate, Lenovo – Dicoding Academy, 2016
- 2nd Winner, Anugerah Motekar UNPAD Category “Innovation of Technology Information” – Ministry of Manpower Indonesia, 2015
- 2nd Winner, National Selection of ASEAN Skills Competition field IT Software Solution for Business, 2015
- Top 40 Tech Projects, Google HackFair, 2015
- Top 10 Intel Developer in Indonesia, 2015

- 2nd Winner, Indosat Ooredoo Hackathon, 2015
- Top 4, Social Innovation Competition by Surya University, 2015
- 2nd Winner, West Java Competitive Programming Contest, Widyatama, 2015
- 1st Winner, National Skills Competition field IT Software, Palembang, 2014
- 1st Winner, Anugerah Prakarsa Jawa Barat, 2014
- 1st Winner, West Java Skills Competition, 2014
- 2nd Winner, Asia Pacific ICT Alliance Award (APICTA), Hong Kong, 2013
- 1st Winner, Indonesia ICT Awards, 2013
- 2nd Winner, Asia Pacific ICT Alliance Award (APICTA), Brunei Darussalam, 2012
- 1st Winner, Indonesia ICT Awards, 2012
- 1st Winner, Indosat Inspiring Youth and Women in Tech, 2012
- 1st Winner, West Java ICT Awards, 2011