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personal info

Born: Ciamis, 20 May 1975
Live in East of Cibubur, West Java
Nationality: Indonesian

education

Degree in Math (2000)
Math Dept. of Institut Teknologi Bandung
Majoring in Computational Math Modelling

20 Years of total experience; 20+ years of coding in various languages; 15 years in various *distributed systems*; 5 years in *big-data and datastreams*; 11 years of experience in energy and other industries —mostly on *project management & specialist position*;

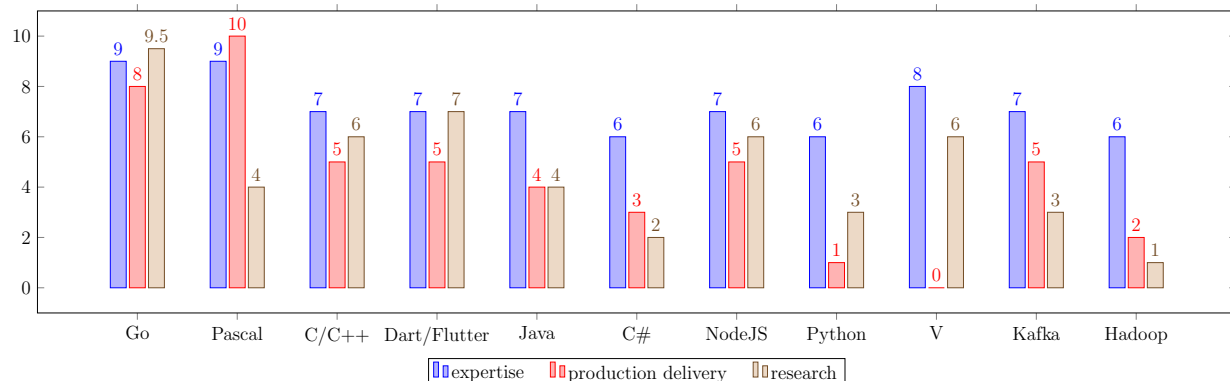
qualification

Teaches, guides, inspiration wannabe & leads team; Anticipates technology trends/change; Manages team of large size and/or high-skilled peoples; Mixes & matches person-nels to achieve effective team composition; Excellent *polyglot coder* (Go, C/C++, Delphi/Pascal, C#, Java etc); A long-time *Linux/BSD command-liner*; Very good on analysis and *systematic problem solving*, very good on *statistical data analysis* and *math modelling*.

experience

Managed large *multi-sites* (Java, Sumatera, Kalimantan, Sulawesi & Bali) *team of 150s persons*, including developers, operators and managers for a 3 years managed service project; Managed a team of 3 exceptionally high skilled personnels for a *nationwide project*; Architected various systems: *Industrial distributed system*, *SCADA-enterprise integration*, *bigdata migration*, nationwide *distributed biometric matching system*, *data-streams*, *core banking-stream off-loading*.

Expertise vs Production Delivery vs Research of a few technology



Programming & Development

Built for productions:

- *Microservices; API Gateways; Dashboards*; tags: **Go C/C++ Java Node.js**
- *NIST format encoder/decoder; biometric image format validator*; built a massive volume (terabytes) *biometric image processing service*. tags: **Go C++**
- *Android applications; IOS application; Web applications*; tags: **Dart/Flutter Node.js Svelte.js**
- *Industrial distributed system; Industrial data communication; Industrial software plugins*; tags: **C++ Delphi C# Visual basic OPC Modbus**
- *Data visualization; Document/report*

generator; tags: **Javascript D3.js L^AT_EX**

Research & development:

- Extended *Petrinet* library for Go; Boil-erplate *code generator* to support TDD; *Ontological Semantic NLP* framework; tags: **Go**
- *Elastic Ring* data type for incomplete image congruence detection; tags: **Algorithm Datatype**
- A simple app for creating movie from a collection of *SVG* files using a set of simple transformation; tags: **C++ Cairo FFmpeg**
- *Unikernel* based microservices; tags: **C++ Rust IncludeOS, FireCracker**

Worked intensively with *Git, Docker, Kafka, Postgres, NATS, Redis, Hadoop, Cassandra, Ms SQL Server, CouchDB, ArangoDB, CockroachDB, K3s Kubernetes, Google Cloud, AWS, Azure, Siemens WinCC*.

Currently exploring some other programming language *DigitalMars D, Haskell, V language, Zig, Nim, Pony* and *Chapel*.

PROFESSIONAL EXPERIENCE

SIBERNETIK INTEGRA DATA–Jakarta

Determines company's technology related strategies including technology roadmap, acquisition model, stacks, team skill sets requirements and partnerships.

Dec 2017–present

Head of Solution Dev.

Q1.2020. Realtime core banking off-loading–BTPN Syariah

Solution Architect

To provide tools and mechanism to BTPN Syariah to perform realtime data off-loading from their T24 core banking system to surrounding application using Attunity and Kafka.

Q4.2019. Information War Campaign–BSSN

Technology Advisor

To provide media monitoring tools to BSSN regarding issues in social and formal media. Functions: *Sentiment analysis*, bot detection, social media monitoring, etc.

- Q4.2019. Sistem Koordinasi Terpadu CAKRA–KOSTRAD** *Technology Advisor*
To provide media monitoring tools to KOSTRAD regarding issues in social and formal media, personnel distribution, war and peace strategies etc. Functions: *Sentiment analysis*, social media monitoring, etc.
- 2019–2020. Bigdata & Datastreaming Integration –Commonwealth Bank** *Technology Advisor*
To provide *Confluent Kafka* data streaming solution to Commonwealth Bank Digital Banking. Functions: Realtime notification, realtime data ingestion, etc.
- 2019–2022. Bigdata & Datastreaming Integration–BRI** *Senior Solution Architect*
To provide *Confluent Kafka* data streaming solution to BRI Digital Banking. Functions: Realtime notification, realtime data ingestion, fraud detection, cash management, etc.
- Q3.2019. AIS live data streaming to Bigdata integration –Ditjen Bea Cukai** *Technology Advisor*
To provide *Confluent Kafka* data streaming solution to Ditjen Beacukai. Functions: Realtime AIS data streaming from multiple sources, on the fly data query, on the fly data quality etc.
- Q1–Q3.2019. Develop Marine Monitoring–MVP** *Technology Advisor*
To build an MVP of B2B product, including determining data vendor, technology stack and developing team for building the product.
- Q1.2019. Operational Dashboard–BAKAMLA** *Technology Advisor*
To provide dashboard solution to BAKAMLA for their strategic and day-to-day operation. Functions: Realtime notification, organizer, maps etc.
- Q1.2019. Ceria Payment Gateway–BRI** *Technology Advisor*
To implement in-merchant-app payment page and BRI side gateway for BRI ceria microloan.
- Q4.2018. Ceria Collection System–BRI** *Technology Advisor*
To design & implement collection system for BRI Ceria, a microloan for online merchant’s customers.
- Q4.2018. Ceria Merchant Dashboard–BRI** *Technology Advisor*
To design & implement dashboard for BRI merchant (at the time this was written *Tokopedia & Panorama*)
- 2017–2018. Distributed Biometric Matching System –Ditjen Imigrasi** *Solution Architect, PM, Dev*
To design & implement distributed biometric matching service for other subsystems in SIMKIM v.2 of Ditjen Imigrasi such as Izin Tinggal, Visa, Layanan Paspor, Cekal etc.

DATTABOT–Jakarta *Aug 2017–Dec 2017*
To determine bigdata architecture and data migration methodology *Consultant*

Q3–Q4.2017. Bigdata migration–Bank Danamon

Sr. Solution Architect

This project was to perform data migration from various data sources and core banking system to client's new data warehouse. This project employ various technologies such as *Cloudera Hadoop, Talend, Sqoop* etc.

DOWEDO–Jakarta

Sep 2016–Jan 2018

To design system architecture and implement Online Tourism eCommerce platform

Consultant

2016–2018. Building Tourism eCommerce Platform

Solution Architect

This project was to build tourism e-Commerce platform. However the life cycle was ended when it reached MVP.

TRIPATRA ENGINEERS & CONSTRUCTORS–Jakarta

Nov 2013–Apr 2015

To ensure that project support systems keep aligned with all project requirements despite characteristics difference between projects.

Sr. Engineer

**Q3.2014. Electronic Document Management System (EDMS)
–Internal project**

Project Manager

This internal project objective was to develop a new major release of the system. The new release was the result of knowledge absorption from on going projects to keep the system aligned with future projects requirements.

Q2.2014. Issue Management System–Internal project

Project Manager

This internal project objective was to develop a system to manage projects issues. The main purpose of the system is, to track issue statuses, expedite for issue solutions and manage issue solution as lesson learned.

Q1.2014. Project Control Portal–Internal project

Project Manager

This internal project objective was to develop a centralized information service for the corporate on all projects project control. With this system, corporate are able to track progress status of the on going projects.

SINTESA SOLUSI UTAMA–Java, Kalimantan, Sumatera

Feb 2006–Jun 2013

It was a self-owned company which was founded as information technology service provider.

2007–2013. Fuel Distribution Management System *Project Manager*
(Java, Sumatera)–Elnusa Petrofin

This project was a managed service which provide IT service for client's whole fuel distribution operation, including IT systems, infrastructures and human resources.

Q3.2007. Interactive 3D simulation of Sidoarjo Mud Burst *Project Manager*
–Lapindo Brantas

The project was to build interactive 3D simulation of the Sidoarjo mud on Banjar Panji site. This project used data provided by Lapindo Brantas to simulate the chronology of Sidoarjo mud burst and was to be presented by client to government and parliament.

Professional Service: Multi-remote Siemens WinCC integration *Aug 2011*
Client: Perusahaan Gas Negara *OPC Specialist*

The project was to integrate multi-stations Siemens Simatic WinCC which were distributed in different remote locations, South Sumatera and West Java using OPC communication standard.

Professional Service: WinCC–TOPServer Integration *Feb 2007*
Client: Yamatake Berca *OPC Specialist*

The project was to integrate Siemens Simatic WinCC and Yamatake TOPServer, using OPC communication standard for a Building Automation project.

Professional Service: SCADA–Enterprise Integration *Feb–Sep 2006*
Client: Kaltim Prima Coal *OPC Specialist*

The project was to integrate the existing Siemens Simatic WinCC and corporate information system (Mincom Minetrak –a mining management solution), which was currently in implementation phase. The project was using OPC communication standard to stream data from the SCADA system. The project was implemented in a live production system which did not tolerate shutdown.

SIEMENS INDONESIA–Jakarta, Balikpapan, Handil *May 2004–Feb 2006*
MRS-H251 Obsolete ESD and F&G System Revamping *Control System Engineer*

The project was Obsolete ESD and F&G System Revamping in a plant operated by *Total E&P Indonesia* - East Kalimantan. The objective is to revamp shutdown system which was handled by ALSPHA and implement Siemens technology for the function. The project was also to integrate the system being implement to the existing system which was Honeywell DCS.

It was a project with a *distinctive level of difficulties and risks* due to the involvement of a live production system and diverse technologies. This project employed various technologies such as OPC (*OLE for Process Control*), redundancy support, failsafe and others. End result of the individual work here was an OPC sub-system which bridging communication between Siemens Simatic WinCC and Honeywell APPNode which conform to both communication and safety standard.

SELF EMPLOYED–Jakarta

2000–Dec 2004

Running self-owned internet cafe & gaming center along with

Business Owner

various sideline: such as printing services, photo-editing, banner & commercial design, billing system development, computer repair etc.

INTERESTS

coding, math, guitar & basses, woodworking, gardening