

Agung Prakasya

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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*

21 Years of total experience; 21+ years of coding in various languages; 15 years in various *distributed systems*; 6 years in *big-data and datastreams*; 11 years of experience in energy and other industries —mostly on *project management*, *solution architect* & *specialist position*;

qualification

Build trusts, guides, inspiration wannabe & leads team; Anticipates technology trends/change; Manages team of large size and/or high-skilled personnels; Mixes & matches personnels to achieve effective team composition; Excellent *polyglot coder* (Go, C/C++, Delphi/Pascal, C#, etc); A long-time *Linux/BSD cli-er*; Very good on analysis and *systematic problem solving*, *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*.

Programming & Development

Built for productions:

- *Microservices; API Gateways; Dashboards*; tags: **Go C/C++ Pascal 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: **Flutter Node.js React.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 Ms Office Automation L^AT_EX**

Research & development:

- Extended *Peternet* library, for dynamic flow building blocks; Boilerplate *code generator* to support TDD; *Ontological Semantic NLP* framework; tags: **Go Python V C++**
- *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: **Go SVG FFmpeg GraphicsMagick**
- *Peternet* based *Dynamic Flow Engine* microservices, think of smart Kubernetes; tags: **V POSIX Std-Linux-tools**

PROFESSIONAL EXPERIENCE

INFORMATIKA SOLUSI BISNIS (paques.id)–Jakarta *February 2021–present*
Design solution architecture both for products and projects customized for users.

Q1.2021. Rearchitected Paques Media Intelligence engine *Solution Architect*
To provide a more performant, flexible and bullet-proof internal engine for Paques Media Intelligence, including *online-news crawler, NLP module* and *FTS services*.

Q2-Q3.2021. Architected Solution for Lab. Cyber–Kejagung *Solution Architect*
To provide a solution for data processing and analytics for various data including reports, lawful intercepts, online news and social media.

Q4.2021. Architected Solution for DSS Bursa Efek Indonesia *Solution Architect*
To provide a solution for upgrading the DSS system of Bursa Efek Indonesia.

Q4.2021. Architected Solution for Telkomsel Data processing *Solution Architect*
To provide a solution for data processing and analytics for communication data in Telkomsel. The solution to date, has been processing **50TB data per day** and will grow to 90TB per day in Q1 2022, using only 6 servers.

SIBERNETIK INTEGRA DATA (sibernetik.co.id)–Jakarta Dec 2017–Jan 2021
Determines company’s technology related strategies including technology roadmap, acquisition model, stacks, team skill sets requirements and partnerships. *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 *Solution Architect, PM, Dev*
–Ditjen Imigrasi
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.

MEDIATRAC SISTEM KOMUNIKASI (databot.io)–Jakarta *Aug–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 *Consultant*
eCommerce platform

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 *Sr. Engineer*
requirements despite characteristics difference between projects.

Q3.2014. Electronic Document Management System (EDMS) *Project Manager*
–Internal project
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 Indonesie* - 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