

Fahri Nurul Hidayat

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A passionate software developer

Education

- 2014–2017 **Universitas Indonesia (UI) - Master's degree in Computer Science.**
GPA: 3.65
Master's Thesis: "Generating Software Product Line Family on Go Programming Language Based on Abstract Behavior Specification (ABS) Modelling Language"
- 2007–2011 **Universitas Indonesia (UI) - Bachelor's degree in Computer Science.**
GPA: 3.32
Undergraduate Thesis: "Development of Client-Server Matlab Application Based on RabbitMQ Messaging"

Experience

- July 2019–Current **Senior Software Engineer, Tiket.Com** - *One of the best online travel booking website based in Indonesia.*
- Research and Development (R&D) team:
 - We developed solutions to help all product teams to migrate to microservices. We developed: **Canary Router** (<https://github.com/tiket-oss/canary-router>) and **Custom Matcher Traefik Plugin**
TECH STACK: **Go**
 - We developed **HotStone** (<https://hotstone-seo.github.io/>) to help SEO team to manage HTML tag using data sourcing. Besides doing frontend, backend, and HotStone client stuff, I especially have worked on URL pattern matching as a part of core feature.
TECH STACK: **Go, React, MySQL, TimescaleDB, Redis**
- Nov 2018–March 2019 **Senior Backend and Blockchain Developer, Biido.Id** - *Marketplace and Trading Platform for Crypto Assets.*
- I developed systems to talk with crypto network nodes protocol (Ethereum & ERC20) and payment backend system.
TECH STACK: **Java, Spring Boot, Go, NodeJS, PostgreSQL, Redis, Docker, Kubernetes**
 - I led a mobile development team.
TECH STACK: **Dart, Flutter**

- May 2012–Oct 2018 **Software Developer**, *Center for Computer Science of Universitas Indonesia or Pusat Ilmu Komputer Universitas Indonesia (Pusilkom UI)*.
- 2018 I worked on various projects for client companies.
- Company X - *Big provider of electronic transaction services*
 - May 2012–August 2013. I developed a web based report system for client's customers with features: custom scheduling for data processing and report generation, custom report design & custom data pipeline.
TECH STACK: **Java, Spring MVC, Quartz, Pentaho, MyBatis, Oracle DB**
 - March 2014–August 2015. I led team to develop a system to integrate data from several internal systems. Users can made custom integration data workflows.
TECH STACK: **Java, Spring MVC, Quartz, MyBatis, Oracle DB**
 - Oct 2014. I developed web services for mobile banking. On the security layer, I coded HMAC based REST auth (popularized by Amazon at that time).
TECH STACK: **Java, Spring MVC, MyBatis, Oracle DB**
 - Nov 2015–June 2017. I led and developed corporate payment system for one of Indonesia's largest telecommunication services provider.
TECH STACK: **Java, Spring Boot, JAX-WS MyBatis, Oracle DB**
 - Oct–Dec 2016. I led and developed a mobile banking application for a regional-owned bank.
TECH STACK: **React Native**
 - Oct 2017–May 2018. I led and developed a mobile banking application with dynamic user interface.
TECH STACK: **React Native**
 - Product Development
 - Sept–Nov 2015. I developed web services for Enterprise University Information System (EUIS).
TECH STACK: **Java, Spring Boot, MyBatis, PostgreSQL**
 - Hospital Y - *Hospital of the well-known university*
 - Feb–August 2017. I led and developed a hospital management system. This system is designed with highly dynamic authorization in single page application (SPA) architecture. I also built a library for generating odontogram (images of teeth)
TECH STACK: **Java, Spring Boot, Vue, MyBatis, PostgreSQL**
- Feb–March 2011 **Internship**, *Indonesia's National Government Internal Auditor or Badan Pengawasan Keuangan dan Pembangunan (BPKP)*.
- I developed and made a prototype of employee performance information system (web based application with desktop-like experience).
- TECH STACK: **Java, Vaadin, IBM DB2**

Open Source Software Contributions

- as Author My contributions as an author:
- Canary Router: HTTP Router for canary release with sidecar pattern
 - <https://github.com/tiket-oss/canary-router>
 - Enhanced Traefik to support custom matcher
 - <https://github.com/tiket-libre/traefik/tree/goplugin-matcher>
(backup:<https://github.com/fahrinh/traefik/tree/goplugin-matcher>)
 - <https://github.com/tiket-libre/traefik-plugin> (custom matcher example)
 - Odontogram: A Java library to generate odontogram
 - <https://github.com/pusilkom/odontogram>
 - Azan : an Islamic prayer time application
 - Azan (Cinnamon Applet) : <https://cinnamon-spices.linuxmint.com/applets/view/303>
 - Azan (Gnome Shell Extension) : <https://extensions.gnome.org/extension/1344/azan/>
 - This CV
 - <https://github.com/fahrinh/cv>

- as Contributor
 - My contributions as a contributor:
 - Abstract Behavior Specification (ABS) to Go Generator (my master thesis' work)
 - <https://github.com/fahrinh/abstools>
- as Reporter
 - My contributions as a bug reporter:
 - I found a line-ending bug on Pentaho Reporting and I proposed a fix
 - <https://jira.pentaho.com/browse/PRD-4917>
 - Fix build error and enable ndbench-dyno-plugins for **Netflix Data Store Benchmark**: <https://github.com/Netflix/ndbench/pull/241>

Community

I am the creator and admin of the following Telegram groups:

- Elixir ID – https://t.me/elixir_id
- React Native Indonesia – https://t.me/reactnative_id

Certificate

June 2010 **Sun Certified Programmer For The Java Platform, Standard Edition 6 (SAI).**

Tech Skills

Basic	Elixir, Kubernetes
Intermediate	Go, Javascript, Dart, PHP, Python, Ruby, Docker, Ansible
Advanced	Java, Linux

Languages

Bahasa	Native Speaker
English	Intermediate

Interests

Programming Language	Elixir
Software Architecture	Domain Driven Design (DDD) with Statically Typed Functional Programming Language (F#, OCaml, ReasonML)
Sports	Tennis, Calisthenics

Blog

English	https://fahri.id/
Bahasa	https://fahri.id/id/

Favourite Tech Sites

Sites that I visit daily to get to know latest (hyped) technology or current software development issues around the world

- <https://news.ycombinator.com/>
- <https://lobste.rs/>
- <https://www.reddit.com/r/programming>