

Muhammad Wahyu Nugroho

Sakti



Software Engineer | Data Analyst | Full-stack Developer

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Summary

I'm a passionate full-stack developer from Surabaya Indonesia. I create some web or mobile application using several technologies frameworks such as Express.js, Vue.js, React.js, React-native, PHP Laravel, and Android Studio. Giving end to end solution both on front-end, back-end development, relational DB and NoSQL DB. In other hands, sometimes develop a game using Unity3D as a Hobby.

I did some research on artificial intelligence & knowledge discovery in a database for my bachelor degree and master degree. Taking knowledge of the data will require a lot of patience, and I really love that, including user behavioral clustering, fraud detection, and anomaly detection.

During college, I always did remote work and part-time work so I faced real problems. Hence, I did many ways to improve my ability to the latest technology, for example, taking online courses on several platforms. I'm very curious about the newest technology and impactful. Therefore, I studied self-taught for implementation on real problems and being faced. I always believe that impressive communication and hard work never betray us.

Education

Master of Applied Science, Computer and Informatics Engineering 2018 - now

Politeknik Elektronika Negeri Surabaya - Indonesia

- *Relevant coursework:* Advanced Programming, Advance Networking & Security, Web Design & Service Engineering, Artificial Intelligence, Pattern Recognition, Advance Data Science, Knowledge Discovery, Modelling & Simulation, High-Performance Computing,
- *Thesis Project:* Game Data Science Framework, Clustering Player Behavior Activity and Geospatial Tracking in Game Creative Industry (**Express.js, Vue.js, PostgreSQL, Java**)
- *Average grade:* 3.65/4

Bachelor of Applied Science, Game Technology 2014 - 2018

Politeknik Elektronika Negeri Surabaya - Indonesia

- *Relevant coursework:* Algorithm & Programming Concept, Object-oriented Programming, Game Design, Game Mechanics, Network Management, Network & Web Service Programming, Mobile Programming, Multi-player Game Design
- *Final Project:* Open Analytics Service REST API to collect player activity from digital video game built on top unity3D game engine (**Express.js, Vue.js, PostgreSQL**)
- *Average grade:* 3.72/4

Software Engineering 2010 - 2013

SMKN 1 Jenangan Ponorogo (Vocational High School of Engineering)

Relevant coursework: Desktop Programming, Static Web Page Programming, Dynamic Web Page Programming, Mobile Android Programming, Geographical Information System, Physics, Mathematics, etc

Skill & Competences

- **Programming Language :** Javascript, PHP, Java, Python
- **Collaboration Tools :** Github, Gitlab, Bitbucket, Trello, Slack, and Discord
- **Engine & Framework :** Node.js, Express.js, React.js, Vue.js, Laravel, Jersey, Spring, Unity3D
- **Performance & Testing Tools :** Lighthouse, Jest, Cypress, JUnit, PHPUnit.
- **Development Management :** Waterfall, Scrum, Agile, DevOps

Skill Bar

Javascript



jQuery, Express.js, Vue.js, React.js

PHP



Native, Laravel

Java



Android, Jersey, Spring

Python



Pandas, Scikit-learn, Django

SQL RDBMS



MySQL / MariaDB, PostgreSQL

NoSQL DB



MongoDB, Redis, ElasticSearch

Elastic Universe



Project Experience

Branch Assessment Management System (Laravel, JS) 2020 - 2020

PT. Telekomunikasi Indonesia

- Develop a full-stack assessment management system to help branch benchmarking
- Make highly customizable module to make role-based assessment
- Support deployment into test & production server

Dashboard Data Analytics for Ticket Monitoring (Laravel, JS) 2020 - 2020

PT. Telekomunikasi Indonesia

- Develop full-stack dashboard data analytics to support division service operation
- Create interactive chart dashboard and a table view to scoop reporting
- Scaling the app to help division support expansion

Android Apps for Attendance using AI Face Recognition 2019 - 2020

PT. Berdikari Pondasi Perkasa

- Creating android apps for human resource attendance management
- Designing the user interface and micro-interaction
- Make sure that AI face recognition & the algorithm can work in any condition

Customer Ticket Support Web Apps (Laravel, JS) 2019 - 2019

PT. Berkat Inovasi Megah

- Develop a customer support management system using PHP & JS technology
- Develop administrator dashboard & customer dashboard
- Support deployment into test & production server

Backend Blockchain Smart Contract Transaction (Node.js) 2019 - 2019

- Creating backend API for ethereum based blockchain transaction
- Make the backend queue messaging process
- Support Deployment into test & production server

PowerSign Digital Signage (Express.js, Vue) 2019 - 2019

PT. Magister Sukses Abadi 15

- Designing product of digital signage solution
- Develop a content management system for digital signage dashboard
- Develop serverless architecture to deploy an efficient application

Ahira Hostel Online Room Reservation (LAMP Stack) 2018 - 2018

Ahira Group

- Create a landing page & company profile website
- Develop an online booking reservation system
- Develop a content management system using PHP technology

Game Technology Official Website (PHP Wordpress) 2018 - 2018

Game Technology PENS

- Designing an official website of the study program
- Manage and integrating WordPress plugins
- Improving google SEO and web performance by google lighthouse

ElasticSearch, Logstash, Beats, Kibana

Big Data Environment



Spark, Hadoop, Hive, Kafka, Mapreduce

Cloud Environment



Digital Ocean, Heroku, AWS, GCP

Version Control System



Github, Gitlab, Bitbucket

QA Testing



Jest, Cypress, PHPUnit, JUnit, Unittest

Communication Tools



Telegram, Skype, Trello, Slack, Discord

Development Methodology



Waterfall, Scrum, Agile, DevOps

Front-end Dashboard Web Developer (React, Vue) 2017 - 2017

[PT. Ebox Dynamic Solusindo](#)

- Rebuild the functional single page web application from react.js to vue.js with google material design principles
- Integrating front-end web application with REST API
- Responsible to make E2E testing using Cypress

Web Apps for Construction Management (LAMP Stack) 2015 - 2015

[CV. Budi Surya](#)

- Develop local area network-based web application
- Designing Database management system for budget accounting
- Develop human resources management system

E-commerce Website to Display Research Consulting Project 2014 - 2014

[Mulya Riset](#)

- Create a landing page & product grid display
- Develop a content management system using PHP & JS technology
- Support project deployment into production server

E-commerce Website to Display Furniture Product 2013 - 2013

[Jatiwangi Group](#)

- Create a landing page & product grid display
- Develop a content management system using PHP & JS technology
- Support project deployment into production server

Work Experience

Back-end & Mobile Developer (Express.js, PostgreSQL) (Internship) 2017 - 2017

[PT. Cita Mulia \(Parahita Diagnostic Center\)](#)

- Recreate REST API using node.js technology & express.js framework
- Integrating REST API with android java
- Designing and create a mobile application for marketing visitation support

Full-stack Web Developer (LAMP Stack) (Remote) 2016 - 2017

[PT. Eka Management](#)

- Create End to end web apps solution for managing International labor recruitment.
- Designing MySQL RDBMS for an end to end solution with 3 major application architecture: Recruitment, Finance, and CMS. Creating tons of SQL query.
- Working on both javascript programming at the front-end and native PHP programming at the back-end

Courses & Certification

Microsoft: DEV280x Building Functional Prototypes using Node.js 2019 - 2019

[edX and Microsoft](#)

- Learn the basics of back-end web development as you create a simple web application server using Node.js.
- Web server basics, HTTP and web routing, SQL, SQLite, and Azure deployment

Microsoft: DEV282x React Router and Redux 2019 - 2019

edX and Microsoft

- Learn how to add routing and state management to your application using React Router and Redux
- Handle routing using React Router, Simplify state management using Redux, and Integrate Redux with an existing React application

Google For Business and How to Make a Website 2019 - 2019

Google and Gapura Digital Surabaya (GDS)

- Build an effective website
- Content and copywriting strategy
- Understanding video branding

React - The Complete Guide (incl Hooks, React Router, Redux) 2018 - 2018

Udemy and Academind

- Build powerful, fast, user-friendly and reactive web apps
- Provide amazing user experiences by leveraging the power of JavaScript with ease
- Learn React Hooks & Class-based Components

NodeJS - The Complete Guide (incl. MVC, REST APIs, GraphQL) 2017 - 2017

Udemy and Academind

- Understand the NodeJS ecosystem and build server-side rendered apps, REST APIs and GraphQL APIs
- Build modern, fast and scalable server-side web applications with NodeJS, databases like SQL or MongoDB and more

The Entrepreneur Experience 2013 - 2013

Onsite Course by Universitas Ciputra Surabaya

- Learn to make opportunity in entrepreneur skillset
- Personal branding and brand strategy
- Leadership and initiative

Scholarship

Fresh Graduate Scholarship 2018 - 2020

Politeknik Elektronika Negeri Surabaya

Master graduate scholarship for fresh graduate with cumlaude predicate

Leadership Programme

Community Leader 2015 - 2016

Creative Multimedia Programming Community

- Lead the community to learn new technology in the field of computer science, especially in creative multimedia programming
- Manage community monthly meetup and exhibition support

Team Leader of PYP Team 2013 - 2014

The Entrepreneur Experience by Universitas Ciputra Surabaya

- Lead a software development team to impress instructors with business and computer science skills

- Manage team to develop minimum requirement project to fund

Volunteering Experience

- Programming community leader 2015-2016, Programming Is a community in Creative Multimedia Department Politeknik Elektronika Negeri Surabaya (PENS), that focuses on the field of learning and sharing about programming language and technology. in this community collaboration and work projects are also implemented with parties from outside the campus.
- PMKS Desktop Apps, together with Ponorogo Youth Programmer, we were developed desktop-based software, it lists people with social welfare problems and then is asked for assistance from the department and the social ministry.
- Ponorogo Youth Programmer, created in 2012. Communities that focus on sharing technology, designing, and develop some projects to make a contribution to the smart government & business in ponorogo regency.