MUHAMMAD ANAS ALQOYYUM

Software Engineer

Jepara, Jawa Tengah, Indonesia

hello@anasalqoyyum.dev ◆ (+62) 813 2772 0079 ◆ anasalqoyyum.dev ◆ linkedin.com/in/anasalqoyyum ◆ github.com/anasalqoyyum

WORK EXPERIENCE

AccelByte Inc. **Remote / Washington, USA**
Software Engineer Jun 2021 – Present

- Led architecture of the code-generated TypeScript Web SDK from OpenAPI to a strongly typed client, modularizing generator templates and eliminating most hand-written wrappers, reducing integration time for product teams and customers.
- Contributed and led the development of core applications, including web and desktop applications (React & Electron) and backend services (Node.js, Golang).
- Automated customer-specific solution customization through an in-house visual app editor, significantly reducing manual engineering effort.
- Designed and maintained automated semantic versioning & release pipeline (conventional commits + changelog generation) for TypeScript Web SDK ensuring predictable upgrade paths and clear migration notes for integrators.
- Enhanced documentation and internal workflows (testing, CI/CD, etc), ensuring better accessibility and usability for both internal and external stakeholders.
- Initiated the migration of multiple documentation sites to Docusaurus with custom branding and automated PR-preview workflows, improving content review throughput by 30%.
- Established standardized load-testing processes for the frontend framework (Remix.js + Node.js), achieving a 7x performance improvement and reducing VM load.
- Authored and maintained technical specifications, product requirements, and UI designs to support cross-functional delivery.

Saraf Design **Semarang, Indonesia**
Software Engineer Fullstack / Founding Engineer Jan 2019 – Dec 2021

- Successfully conceptualized, developed, and fixed over 30 projects, both large-scale and small-scale, catering to diverse client requirements.
- Collaborated closely with clients to outline project goals and scope.
- Developed web application using Laravel and Vue.js.

Undip Career Center (UCC) **Semarang, Indonesia**
Software Engineer Fullstack (Contract) Apr 2021 – Jun 2021

- Developed and delivered job seeker center website using Laravel and Vue.js.

Diponegoro University **Semarang, Indonesia**
Laboratory Assistant Jan 2020 – Dec 2020

- Managed the laboratory including schedule, finding assistant for lecturer, maintain laboratory PC.
- Created a proper schedule without any clash for each subject.
- Manage dozens of assistant lecturers every day before teaching the student.

Meteorology, Climatology, and Geophysical Agency (BMKG Jawa Tengah) **Semarang, Indonesia**
Fullstack Web Developer Intern Dec 2019 – Mar 2020

- Developed interactive website called Online System Service (SIMS) using React.js and Three.js for 3D visualization of weather data.
- Integrated the website with existing website, so people can order tickets for BMKG data collection online.
- Guided 2 staff members to manage the website system, providing steps on how to use, independently make minor updates and changes in business process.

EDUCATION

Diponegoro University **Semarang, Indonesia**
Bachelor of Science in Computer Science Jun 2017 – May 2021

- **Honors**: 3.62 / 4.0 GPA, Cumlaude
- **Courses**: Algorithms & Data Structures, Machine Learning, Languages and Automata Theory, Computing and Graphics
- **Thesis**: YOLOv4 Algorithm Implementation Based on Darknet and Optical Character Recognition on Vehicle License Plate Detection
- **Activities**: Student Board - Appointed as Head of Communication and Information

LEADERSHIP AND ACTIVITIES

Informatics Student Board (HMIF)   **Semarang, Indonesia**
Head of Communication and Information   Jan 2019 – Jan 2020

- Led a team of peers in managing communication strategies and information flow for the University Student Board.
- Illustrated, created and conceptualized the design of post content. Mainly Instagram and Line account of HMIF undip
- Managed and developed HMIF Undip website.

Informatics Student Board (HMIF)   **Semarang, Indonesia**
Communication and Information Staff   Jan 2018 – Jan 2019

- Illustrated, created and conceptualized the design of post content. Mainly Instagram and Line account of HMIF undip
- Managed HMIF Undip website.

PROJECTS

Lazy Bitbucket Dashboard
OSS

- A terminal user interface (TUI) apps for browsing Bitbucket pull requests built with Bubble Tea and the Charm framework.

Dead Simple Markdown Notes
OSS

- A simple markdown note taking app with a focus on speed and simplicity.

konasute-autoscener
OSS

- OBS Auto Scene Switcher for Konami's Sound Voltex (Arcade & Konasute) using WebSocket to explore OBS WebSocket Plugin.

Ansible as a (reproducable) workstation environment
OSS

- Ansible playbook collection to setup new workstation (Mac & Linux) with all the necessary tools and configurations that I needed.

Hikari
OSS

- Yet another customization frontend for video games with AIR movement.
- Written with a detailed and easy-to-use dockerized environment on how to deploy on a home arcade environment.
- Fullstack written with Next.js and using MariaDB. Docker and Nginx is used during deployment.

HONORS AND AWARDS

Funded Project in Student Creativity Week (PKM)   **Jakarta, Indonesia**
Issued by *Ministry of Education and Culture*   Sep 2020

- Served as the speaker and presented in the event.

Silver Award Indonesia Inventors Day   **Jakarta, Indonesia**
Issued by *Indonesian Invention and Innovation Promotion Association (INNOPA)*   Aug 2019

LICENSES AND CERTIFICATIONS

Junior Fullstack Web Developer License
Issued by *National Certification Agency for Professional Certification (BNSP)*   Sep 2020

Basic Student Management Skills Training (LKMM-D)
Issued by *BEM FSM Undip*   Jan 2018

RESEARCH AND PUBLICATIONS

YOLOv4 Algorithm Implementation Based on Darknet and Optical Character Recognition on Vehicle License Plate Detection
Published on *AIP Conference Proceedings in The 6th International Conference On Energy, Environment, Epidemiology And Information System (ICENIS)*   May 2023

SKILLS, LANGUAGES, INTERESTS

- **Languages**: Bahasa Indonesia (Native Speaker), English (Business proficiency), Japanese (Basic proficiency)
- **Soft Skills**: Public Speaking, Debating, Communication, Critical Thinking, Leadership, Persuasive Writing, Technical Writing
- **Programming**: Javascript & Typescript, HTML, CSS, Golang, Python, Java, SQL, PostgreSQL, Typst, LaTeX
- **Tools**: Git, Docker, Visual Studio Code, Neovim, Figma

- **Web Development**: React, Electron, Docusaurus, Next.js & Remix.js, Three.js, Vue, Svelte & Sveltekit, Tailwind CSS, Node.js, Bun, FastAPI, Flask, Laravel, Spring Boot
- **Data Analytics**: Jupyter Notebook, Numpy, Pandas, Plotly
- **Interests**: Arcade Games, Music Production, Reading Non-fiction, Classical and Original Soundtrack Music, Bullet Points Document

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