TUBAGUS MAULANA AGHNI

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SUMMARY

Backend Engineer with experience in developing RESTful APIs using .NET (C#) and Golang, working with message brokers and IoT systems, and creating technical documentation. Also experienced as a trainer for knowledge sharing.

WORK EXPERIENCES

PT Pamapersada Nusantara
Software Engineer (RnD IoT Reseacher)   *Feb 2025 - Present*
- Developed and maintained **RESTful APIs using .NET**.
- Designed and explored an **API Gateway using Ocelot** for routing and service management.
- Implemented an RFID-based smart refueling system using .NET through the iFlash Smart Refueling service, including integration with LCR600, to automate and enhance fuel dispensing accuracy for mining fleets.
- Developed an alert detection system using Python to identify over-pedal and over-RPM events, consuming data from MQTT and displaying real-time alerts on a dashboard for mining operators.
- Explored **Next.js** to build modern frontend applications and integrate with backend REST APIs and Implemented **API consumption and data fetching in Next.js**, both server-side and client-side.
- Built **RESTful APIs using Golang (Gin framework)** with a focus on performance and scalable architecture.
- Created a **CLI boilerplate tool for Golang projects** to generate API scaffolding and improve development efficiency.

RUN System (PT Global Sukses Solusi Tbk.)
L2 Support Engineer (Customer Success Dept)   *Dec 2024 - Feb 2025*
- Supervising new engineers in adopting task execution approaches aimed at completing the application development cycle, And Helped train onboard engineers in raw query MySQL/MariaDB and basic ERP technical development.
- Acted as a Level 2 (L2) Support Engineer, assisting Level 1 (L1) support in resolving technical issues reported by customers via osTicket, ensuring compliance with agreed SLA.
- Fixing hotfixes/defects identified by the Solution team and/or Helpdesk Support (L1), And Documenting tickets that contain technical issues encountered by users and writing a knowledge base for internal team reference.
- Troubleshooting technical issues experienced by users through Helpdesk Support (L1) based on received tickets.

ERP Software Engineer (Enterprise Product Dept.)   *Mar 2024 - Dec 2024*
- Assist manager in implementing the OKR program regarding monitoring the reduction in ERP application defect rate.
- Developing desktop-based ERP applications using the .NET Framework, C#, and MariaDB.
- Contribute to applying ERP modules such as FICO, HCMS, HRIS, IMM, and Procurement in ERP applications.
- Create and develop a customer database backup system using Python with cronjob scheduler.

Prodi Teknik Informatika Universitas Dian Nuswantoro
Computer Lab Assistant & Teaching Assistant   *Okt 2021 - Dec 2021*
- Assisting lecturers in conducting the Career Guidance program for approximately 40 final-year Informatics Engineering students to learn and use the Laravel web framework.
- As the Coordinator of the IT Laboratory Assistant Team, responsible for assisting approximately 180 new students in learning the fundamentals of programming using the C++ programming language.

EDUCATION

Universitas Dian Nuswantoro (UDINUS)
Bachelor Informatics Engineering   *Sept 2019 - Mar 2023*
GPA: 3.80 / 4.00
Bachelor's Thesis:
"Use of Hash Join and Nested Loop Join Query Algorithms for Analysis of Data Processing Speed in MySQL & PostgreSQL"

PROJECT EXPERIENCES

Personal Knowledge Wiki & Blog
Writer - Self-employed   *Jun 2023 - Present*
- Explore my wiki: www.maulanaaghni.id/wiki
- Developed a **personal technical wiki and blog** containing cheatsheets, articles, and engineering notes.
- Documented backend, frontend, and software engineering concepts to **improve learning efficiency and knowledge reuse**
- Leveraged the platform as a **personal knowledge base** for experiments, best practices, and technical exploration.
- Showcased **initiative, consistency, and passion for software engineering** through ongoing content creation.

Hacktoberfest 2024 : AnyName (github)
Initiator & Maintainer   *Oct 2024 - Sept 2024*
- The project: https://github.com/maulanaaghnii/anyname
- Participated in **Hacktoberfest 2024** through an open-source project contribution.
- Acted as **project maintainer**, managing contributions, pull requests, and overall project direction.
- Designed and implemented **GitHub Actions** to automate data validation and ensure repository consistency.

LEADERSHIP EXPERIENCES

Student Executive Board of Universitas Dian Nuswantoro
General Secretary / Cabinet Secretary   *Aug 2019 - May 2021*
- Performed organizational secretarial duties.
- Managed incoming/outgoing correspondence for the President of the Student Executive Board.
- Handled administrative responsibilities for five organizational programs and activities.
- Prepared meeting minutes (Minutes of Meeting) for all official meetings.
- Managed and maintained organizational archives and documentation.
- Assisted students by providing information on scholarships and campus support programs.
- Supported the collection and coordination of student aspirations and feedback at Universitas Dian Nuswantoro.

Forum OSIS Jawa Barat (FOJB)
Cimahi Regional Coordinator *Jan 2017 - Jan 2018*
- Responsible for managing administrative affairs of the FOJB Cimahi City Regional Organization.
- Coordinated and supervised FOJB Cimahi City work programs and activities.
- Established and maintained partnerships with Student Council Presidents (OSIS Chairs) of Senior High Schools (SMA) across Cimahi City.

Republik Cerdas Anti Narkoba (RCAN) BNN - Kota Cimahi
Cimahi Regional Coordinator *Jan 2016 - Jan 2017*
- Served as a **RCAN Cadre** under **BNN Cimahi City**, participating in anti-drug awareness outreach programs at Senior High Schools (SMA) across Cimahi City.
- Participated in a **Pre-Training Program on Anti-Drug Awareness** organized by **BNN Cimahi City**.

ADDITIONAL

Languages: Indonesian (Native Proficiency); English (Working Proficiency)

Technical Skills:
- Programming Languages: C#, Python, Golang, Javascript
- Framework: .NET, Django, Gin, NodeJS
- DBMS: MySQL/MariaDB, SQLServer, SQLite, **Redis**

Course & Professional Development:
- Fundational C# with Microsoft – FreeCodeCamp
- DevNet Associate – Cisco
- NDG Linux Unhatched – NDG
- PCAP: Programming Essentials in Python – Python Institute OPENNDG