

Muhammad Ulil 'Azmi

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Software Engineer with 2+ years of experience building high-performance, production-grade programs. Adept in C++, Go, Rust, Python, and proficient in the SDK, Backend and ML/AI fields. Experienced at multinational startups collaborating with cross-functional teams, building cross-platform software used by clients with ~\$1M projected revenue. Expertise in cloud (AWS), containerization, observability (Prometheus/Grafana), and performance testing (k6). Have TensorFlow and AWS certification, and also an IEEE-published ML project. Practical expertise in C/C++, Go ecosystem, proven track record shipping reliable, well-tested code and improving post-release quality.

Seeking a Backend / ML / Software Engineer or technical role to create performative software and contribute to the team.

Professional Experience

Self-Driven Software Engineering Projects

Mar 2024 – Present

- Developed React-Vite serverless AI LLM software for micro coaching, being a finalist in National Vibecoding Competition 2025.
- Built and stress-tested back-end systems in Rust, Go, and deployed on AWS (ECS, S3) with Docker, Prometheus, Grafana, K6.
- Completed AWS Re/Start and earned AWS Certification, gaining hands-on expertise in Linux, Python, networking, security, database, automation, and core AWS Cloud skills.
- Sharpened algorithms and data structures by solving challenges on LeetCode (C++/Python) and exploring GCP via Google Arcade, exploring technologies by attending classes/bootcamps such as Python/Django.

Accelbyte / Backend platform for live game services. Series B-funded (\$60mio raised).

Seattle, US

Software Development Engineer (SDE)

Mar 2022 – Mar 2024

- Built and maintained a reusable cross-platform codebase (C++, Python, Go) used by many of our enterprise clients, enabling near ~\$1M projected revenue.
- Built CI with unit & integration tests across multiple large repositories (thousands of files), cutting post-release defects and client-reported issues.
- Delivered high-impact features on time via cross-functional collaboration (including product and QA teams) and stakeholder consultation, raising customer satisfaction.
- Optimized performance (video processing, IPC, hashing, databases, game packaging) and authored developer docs to boost team productivity.

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Seattle, US

Software Development Engineer (SDE) Trainee

Dec 2021 – Mar 2022

- Built a C++ test framework and automated unit/integration tests with **CMake**, **Google Test** & **Google Mock**, increasing code reliability.
- Implemented **OAuth2 ROPC** authentication, handled HTTP response codes and JSON payloads for secure API integration.
- Delivered 2 tickets and 1 full project on schedule while collaborating in Agile tools (**Git**, **Bitbucket**, **Jira**, **Confluence**, **Trello**) using Visual Studio.
- Applied CRUD libraries and used **Fiddler** for API debugging and validation, streamlining backend integration.

Skilvul / Tech-focused blended-learning edtech platform. Seed-funded, **UI/UX Designer**

2021

Lentera Bumi Nusantara / Social-impact tech for (renewable) energy, agriculture, and education, **Engineer Intern**

2020

Private Tutor in Surabaya Indonesia, Math and Physics

2019

Majeedr, Freelance Graphic Designer and Social Media Caretaker

2017-2018

Bimo Stempel, Graphic Designer and Marketing Officer

2011-2016

Education

Institut Teknologi Sepuluh Nopember

B. Eng in Electrical Engineering

2016 - April 2021

Projects & Achievements

Rust Backends (2024) Built high-performance services with Actix-Web, PostgreSQL, JWT, Docker, Prometheus, and K6.

Golang Backends (2024) Delivered social, e-commerce, health, and ride-hailing APIs with Gin/Fiber, GORM, JWT, PostgreSQL, AWS ECS/ECR.

Shop-Le API Designed and shipped e-commerce API with JWT auth, PostgreSQL, and auto-generated docs (Swagger).

Road-sign Classifier achieved 98% accuracy on mobile image classification (TensorFlow, Android).

Wind-speed Prediction Developed ML forecasting models (MAE <10%), **authored IEEE-published paper** on MPPT wind turbines.

Waste4Change UX Led UX research, prototyping, and case study for waste-management platform (Skilvul).

ISITIA 2021 Presenter **presented IEEE paper** on renewable energy; earlier won **1st place** in the national scientific writing competition for researching a sea wave electrical generator.

TensorFlow Certified & IELTS 7.5 Certified TensorFlow Developer; IELTS 7.5 English proficiency.

Skills: C / C++, Golang, Python, JavaScript, SQL, Actix-Web, Gin, Fiber, Echo, Django, PostgreSQL, SQL, Docker, AWS (ECS/ECR, RDS, S3), Linux, CI/CD, K6, Prometheus, Grafana, logging, performance profiling, LLM, TensorFlow, scikit-learn, pandas, CMake, Google Test/Mock, Git, Jira, Trello, Confluence, Vue.js, Vuetify, UX research, prototyping, English (Professional), Indonesian / Bahasa Indonesia (Native), Javanese.