

MITCHEL MOHAMAD AFFANDI

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Bandung, West Java, Indonesia

As a fourth-semester Telecommunications Engineering student at Telkom University, I have maintained a perfect 4.00 GPA while fostering a strong work ethic, adaptability, and a passion for continuous learning. I actively apply my technical expertise in backend development, IoT, and machine learning through research and collaborative projects. With strong leadership, problem-solving skills, and effective communication, I have successfully led teams, managed complex projects, and driven innovation. My ability to adapt to new challenges, coupled with a proactive mindset, allows me to thrive in today's fast-paced environments.

Professional Experience

PT. Ekshalasi Langit Biru - Bandung, Indonesia <i>Backend Developer</i> <ul style="list-style-type: none">Built high-performance backend services using Golang, processing over 10K sensor data points/day across multiple environments.Integrated Redis caching, reducing database load and improving data retrieval speed by 55%.Managed a large-scale Google Cloud database, optimizing complex queries and reducing latency by 40%.Designed automated CI/CD pipelines with GitHub Actions, cutting deployment time by 60% and increasing release reliability.Used Notion and GitHub to streamline progress tracking and collaboration, improving sprint delivery rate by 25%.	Apr 2025 - Present
PBI Evermos x Rakamin Academy - Bandung, Indonesia <i>Backend Developer</i> <ul style="list-style-type: none">Developed backend algorithms using Golang, optimizing query execution time by 35%.Handled version control using Git, improving team workflow efficiency.Optimized server performance before deployment, reducing downtime by 20%.Managed database operations using MySQL.	Feb 2025 - Present
Cyber Physical System Laboratory - Bandung, Indonesia <i>Research Assistant</i> <ul style="list-style-type: none">Led and facilitated 5+ project discussions, enhancing team efficiency.Engineered backend algorithms with Express.js, improving API response time by 30%.Created and managed databases, primarily using MySQL & PostgreSQL.Built and deployed 10+ RESTful APIs with Node.js, reducing data retrieval time by 40%.Designed user interfaces using Figma and optimized deployment structures.	Sep 2024 - Present
International Class Student Volunteer - Bandung, Indonesia <i>President</i> <ul style="list-style-type: none">Led and organized organizational agendas, improving team coordination.Managed 50+ members, fostering a productive and inclusive work environment.Spearheaded initiatives to enhance communication, inclusivity, and student engagement.Established mentorship and leadership platforms, ensuring equal opportunities for international students.Regularly coordinated with the International Class Academic Office.	Feb 2025 - Present
International Class Student Volunteer - Bandung, Indonesia <i>Chairman of Event Division</i> <ul style="list-style-type: none">Organized 5+ events for the International Class Program at Telkom University.Oversaw seminars and orientation ceremonies for 300+ international students.	Feb 2024 - Feb 2025
IEEE Branch Telkom University - Bandung, Indonesia <i>Human Resource Staff</i> <ul style="list-style-type: none">Managed quality control of internal members to improve engagement and retention.Recruited new members for upcoming periods, increasing organizational growth.	Jan 2025 - Present
Cyber Physical System Laboratory - Bandung, Indonesia <i>Human Resource Staff</i> <ul style="list-style-type: none">Supervised the organization's working environment, ensuring a collaborative culture.Created and maintained a database for internship and scholarship programs.	Sep 2024 - Present
Cyber Physical System Laboratory - Bandung, Indonesia <i>Head of Human Resource Department</i> <ul style="list-style-type: none">Streamlined team structure and onboarding to enhance member engagement.Centralized HR operations using Notion to improve collaboration across departments.	Jun 2025 - Present

Education Level

Telkom University - Bandung, Indonesia <i>Bachelor of Telecommunication Engineering, 4.00/4.00</i> <ul style="list-style-type: none">Awardee of "Beasiswa Pintar"Served as Telecommunications Engineering International Class Coordinator for 3 semesters.	Sep 2023 - Apr 2027 (Expected)
SMAN 2 Tasikmalaya - Tasikmalaya, Indonesia <i>High School Diploma in Science and Mathematics, 95.01/100.00</i> <ul style="list-style-type: none">Ranked in the Top 10 best graduates.Crowned as Jajaka of SMAN 2 Tasikmalaya (2021).	Jun 2020 - May 2023

Project Experience

Boostify - Cyber Physical System Laboratory <i>Fullstack Developer</i> <ul style="list-style-type: none">Developed a website for monitoring 40+ laboratory members' attendance using face recognition, improving check-in efficiency by 80%.Designed ERD for backend mechanisms and user interface for frontend.Implemented Login, Update Profile & Image, and CRUD features for attendance history.Tech Stack: Express.js, PostgreSQL, Supabase, Prisma, ImageKit, Postman, Vercel.	Sep 2024 - Oct 2024
Cyber Academy Website - Cyber Physical System Laboratory <i>Backend Developer</i> <ul style="list-style-type: none">Developed a mentoring registration and Learning Management System (LMS) website.Designed ERD for backend architecture and structured the database.Created task posting and submission features, enhancing user experience.Tech Stack: Express.js, PostgreSQL, Prisma, Postman, Git, Vercel.	Oct 2024 - Nov 2024
SiJaga - Cyber Physical System Laboratory: Pengabdian Masyarakat <i>Backend Developer & Head of Documentation</i> <ul style="list-style-type: none">Developed a website for monitoring a smart IoT locker.Created real-time data features using WebSocket.Designed and deployed 15+ APIs, reducing backend processing time by 40%.Managed event documentation, producing 30+ high-quality media assets for promotional use.Tech Stack: Express.js, PostgreSQL, Supabase, Prisma, Postman, Apidog, WebSocket, Git, GitHub, Railway.	Nov 2024 - Jan 2025
SingularityX - PT. Ekshalasi Langit Biru <i>Backend Developer/Architect</i> <ul style="list-style-type: none">Architected SingularityX as a next-generation environmental monitoring system, replacing the legacy backend with a more modular and scalable repository structure.Integrated Gorilla WebSocket to enable real-time data exchange, drastically improving system responsiveness and live dashboard updates.Implemented Redis caching to reduce redundant queries, resulting in 55% faster data retrieval and more efficient sensor data management.Built CI/CD pipelines using GitHub Actions, cutting deployment time by 60% and increasing release reliability.Deployed the system on Google Cloud, handling 10K+ sensor data entries per day with improved fault tolerance and scalability.Collaborated via GitHub and managed progress using Notion, ensuring streamlined and transparent development workflows.	May 2025 - Jun 2025

Skills

- Technical Skills:** HTML, CSS, JavaScript, PHP, Go, Node.js, Express.js, Laravel, MySQL, PostgreSQL, Google Cloud, Redis, Web-Socket ,GIT, GitHub, Postman, DBeaver, pgAdmin, Vercel, Railway, Supabase, CI/ CD (GitHub Actions), Figma, Notion, Google Workspace, MS Office
- Soft Skills:** Team Management, Public Speaking, Time Management, Flexibility, Adaptability, Continuous Learning, Problem Solving
- Languages:** English (Advanced), Indonesian (Native), German (Basic)