

# Muhammad Ghufuran

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## SUMMARY

As a student of Informatics from Syiah Kuala University, I, Muhammad Ghufuran, have developed a strong foundation in software development. Having completed my coursework and awaiting graduation, I now work as a Software Engineer, applying my knowledge and skills in real-world technology solutions. Throughout my academic journey and professional experience, I have continuously deepened my understanding of software engineering principles and practices. I am confident that my educational background and hands-on experience make me a valuable contributor in the technology industry.

## EDUCATION

<b>Syiah Kuala University</b> <i>Bachelor of Science in Computer Science (GPA: 3.56 / 4.00)</i>	Expected Agustus 2025 <i>Banda Aceh, Aceh</i>
<ul style="list-style-type: none"><li><b>Relevant Coursework:</b> Web Development, Frontend Development, Backend Development, DevOps, Mobile App Development</li></ul>	

## EXPERIENCE

<b>Bangkit Academy</b> <i>Mobile Development</i>	Feb 2024 – Jun 2024 <i>Online</i>
<ul style="list-style-type: none"><li>Developed expertise in mobile development using Kotlin, including hands-on projects creating dynamic and responsive Android applications.</li><li>Worked collaboratively on a capstone project, Fintrack, creating a financial app for SMEs and integrating machine learning models for expense categorization and financial analysis, including forecasting.</li><li>Enhanced problem-solving skills by tackling real-world mobile development challenges, optimizing app performance, and ensuring user-friendly interfaces.</li></ul>	

## PROJECTS

<b>SIPEMA</b>   <i>Public Complaint System for USK</i>	
<ul style="list-style-type: none"><li>Developed backend system for public complaint management using Hono framework with TypeScript.</li><li>Designed and implemented RESTful APIs for complaint submission, tracking, and management processes.</li><li>Built robust database architecture using PostgreSQL with Prisma ORM for efficient data modeling and querying.</li><li>Implemented user authentication and authorization system to ensure secure access to complaint data.</li><li>Created complaint categorization and status tracking functionality to streamline complaint processing workflow.</li><li>Developed notification system to keep users informed about complaint status updates and responses.</li><li>Implemented data validation and error handling mechanisms to ensure system reliability and data integrity.</li><li>Optimized database queries and API performance for handling large volumes of complaint submissions.</li></ul>	
<b>SIPEDas</b>   <i>Employee Information System for Aceh Social Service Department</i>	
<ul style="list-style-type: none"><li>Developed web-based employee management system for Aceh Social Service Department using Express.js and Node.js.</li><li>Built comprehensive database architecture using MongoDB with optimized query performance.</li><li>Implemented secure authentication system with role-based access control for different user levels.</li><li>Created approval workflow system for employee data updates with status tracking functionality.</li><li>Integrated data validation mechanisms to ensure data integrity and prevent duplicates.</li></ul>	
<b>Fintrack</b>   <i>Financial App for SMEs</i>	
<ul style="list-style-type: none"><li>Developed a customized financial management application for small and medium-sized enterprises (SMEs).</li><li>Implemented machine learning models for expense categorization and financial analysis, including forecasting.</li><li>Integrated these models into the Android application, enabling users to track and analyze their financial data.</li><li>Implemented user account functionality to store and manage financial records and history.</li></ul>	

- Added data visualization feature within the application to provide better understanding of financial trends and user spending patterns, including forecasting to assist users in planning their finances for the future.

### **Euran Waste Management System** | *Integrated Waste Payment Project with Laravel*

- Developed an integrated waste management system called "Euran" using the Laravel framework.
- Implemented features for users to pay waste collection fees and manage their payments seamlessly within the application.
- Designed a user-friendly interface for users to register, log in, and view their payment history.
- Integrated with local payment methods or offline payment options to facilitate waste collection fee payments.
- Developed a dashboard for waste collectors to view scheduled collections, update collection status, and generate reports.
- Implemented a notification system to alert users and waste collectors of upcoming collections and payment deadlines.
- Utilized geolocation services to optimize waste collection routes and schedules for efficient operations.
- Ensured scalability and maintainability of the application by following best practices in Laravel development.

## TECHNICAL SKILLS

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**Languages:** Kotlin, JavaScript, TypeScript, PHP, HTML, CSS

**Technologies:** React.js, Laravel, Node.js, Express.js, MongoDB, PostgreSQL, Hono.js

**Designing:** I find pleasure in the process of designing, where I can combine creativity, precision, and strategic thinking to create something unique and meaningful.

## ORGANIZATIONAL INVOLVEMENT

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**Vice Chair of Communication & Information, Informatics Student Association** 2023  
*Syiah Kuala University* *Banda Aceh, Aceh*

- Led communication and information efforts to strengthen organization engagement and visibility.
- Planned and implemented creative strategies to enhance organization activities and events.
- Created and managed the Instagram presence for Informatics (@hmif.fmipausk), ensuring compelling and relevant content to increase interaction with members and wider audience.
- Collaborated with other departments to ensure smooth coordination and achievement of organizational goals.

**Member of Research and Development Informatics Student Association** 2024  
*Syiah Kuala University* *Banda Aceh, Aceh*

- Engaged in research and development activities, contributing to the advancement of student-led projects.
- Collaborated with fellow members to explore new ideas and technologies for innovative projects.

**Member of Student Representative Council (DPM)** 2024  
*Syiah Kuala University* *Banda Aceh, Aceh*

- Participated in student governance and representation activities within the university.
- Contributed to policy discussions and decision-making processes affecting student welfare.
- Served as a liaison between students and university administration to address student concerns.