

# RUSSEL EMILIAN RUMBINO

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## SUMMARY

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Mechanical Engineering graduate with a strong passion for website and mobile development. Proficient in MERN stack (MongoDB / Mysql, Express.js, React, Node.js) and Flutter for mobile app development. Experienced in applying the MVC pattern and state management (Redux, GetX) to build scalable and maintainable applications. Seeking a challenging role as a Front-End Developer, Back-End Developer, Mobile Developer, or Full-Stack Developer to contribute to impactful projects by leveraging technical expertise and problem-solving skills.

## WORK EXPERIENCE

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### Full Stack Web Developer (Project Internship)

Eduwork Online

*April 2024 – December 2024*

- Developed a model-view-controller (MVC) structure to organize the backend more effectively using **Express.js** and **MongoDB/MySQL**, achieving 95% accuracy and performance
- Built REST APIs to handle HTTP protocol-based data integration, achieving an average response time of under 200ms with **Express.js, mongodb/mysql**.
- Created engaging and responsive views for web users using **React.js/Nextjs**, ensuring seamless interaction across different screen sizes.
- Implemented efficient API consumption in **React.js/Nextjs**, establishing a reliable data retrieval mechanism that ensured consistent and accurate data display across various web pages.
- Conducted functional testing of the application using **Jest** to assess usability and ensure the application met reliability standards, achieving 87% coverage
- Successfully delivered 5 complete projects, handling both frontend and backend development independently using **Next.js, React.js, Redux, Tailwind CSS, TypeScript Express.js, Node.js, MongoDB, MySQL and Jest (for functional testing)**.

### Mobile Flutter Developer (Internship)

PT FIT AJA DIGITAL NUSANTARA, South Jakarta

*June 2023 – June 2023*

- Developed all features based on **Figma** designs, ensuring a responsive and visually appealing user interface that accurately represented the provided specifications.
- Created a **Flutter** application to display detailed insurance card information, following the **MVVC** architecture with **GetX** for a clean and maintainable codebase .
- Integrated a health blog API to fetch and display articles, with seamless navigation to detailed views using **WebView**, achieving 93% accuracy in functionality and user interface
- Utilized **Dio** for efficient API handling and **GetX** for state management and navigation, ensuring smooth functionality throughout the application.
- Successfully delivered all features within two weeks, fully aligned with **Figma** designs.
- Achieved **95% accuracy** in UI implementation and functionality integration.
- Produced a well-structured, maintainable application adhering to **MVVC** principles and coding best practices, ensuring long-term scalability.

## CERTIFICATION & BOOTCAMP

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### Dicoding

Online

*Basic Dart, Flutter Pemula Class*

*November 2024 - December 2024*

- Progressed from beginner to foundational levels in Dart programming and Flutter framework, focusing on cross-platform mobile application development.
- Gained a solid understanding of Flutter widgets, including stateful and stateless widgets, to build responsive user interfaces.
- Mastered the fundamentals of state management using Provider, enabling efficient application architecture and dynamic UI updates.
- Created a functional HTTP-based application, consuming RESTful APIs for real-time data retrieval and submission.
- Designed and implemented a basic mobile application project featuring navigation, input forms, and asynchronous data handling using Dart and Flutter.
- Developed skills in using Flutter tools like Hot Reload, Flutter Inspector, and Dart DevTools for faster debugging and development.
- Applied principles of clean code and modularization, ensuring maintainability and scalability of mobile applications.
- Completed hands-on projects that included creating a user-friendly mobile interface and integrating local data persistence using Shared Preferences

### EDUWORK

Online

*MERN Class*

*March 2024 – November 2024*

- Completed courses in ExpressJS, ReactJS (Javascript Framework) within three months.
- Developed a REST API backend, implementing essential endpoints for seamless data handling using ExpressJS in one week.
- Gained practical knowledge in authentication and authorization techniques over a focused two-week period with Passport.JS.
- Enhanced project collaboration and repository management skills throughout the program, utilizing GitHub to streamline version control and teamwork.
- Acquired a strong understanding of efficient database design prior to application development in a month.
- Learned and created five full-stack projects for the Portfolio in five months.

### Enigma Camp

Online

*Golang Class*

*March 2023 - May 2023*

- Progressed from beginner to advanced levels in Golang, focusing on backend development and building scalable web applications.
- Mastered the Gin framework, developing efficient RESTful APIs with middleware for authentication, logging, and error handling.
- Gained hands-on experience in designing and implementing MVC architecture, ensuring clean and maintainable code structures.
- Worked extensively with database integration, including PostgreSQL and MySQL, for creating secure and optimized backend systems.
- Learned and applied unit testing in Golang to ensure code reliability and maintainability.

## EDUCATION

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### Sam Ratulangi University Manado City

Bachelor Degree (S-1) - Mechanical Engineering. 2014 – 2021

GPA: 3.21 / 4.00

- Acquired comprehensive knowledge in thermodynamics, fluid mechanics, materials engineering, and mechanical design principles.
- Designed and analyzed mechanical systems using tools such as AutoCAD, SolidWorks, and MATLAB.
- Completed a final project focused on optimizing energy efficiency in mechanical systems, integrating practical and theoretical principles.
- Gained practical experience in machine maintenance, manufacturing processes, and quality control during internships and laboratory projects.

## SKILLS

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**Technical Skills :** | JavaScript | ExpressJS | ReactJS | NodeJS | NextJS | TypeScript | HTML5 | CSS3 | EcmaScript6 | REST API | TailwindCSS | Database | NOSQL | MongoDB | SQL | MySQL | Version Control System Git | Github | Unit Test | Mobile | Dart | Flutter | ERD | Indonesia

**Soft Skills :** Teamwork | Problem Solving | Time Management | Communication

**Interests:** Full Stack Developer, Mobile Developer, Backend Developer

**Languages :** Bahasa Indonesia (Native) | English (Intermediate)

## PROJECTS

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### Car Rental UI

December 2024

Details : Fully functional e-Rental platform that allows users to browse and rent cars online.

Tools : Flutter

Link : <https://github.com/uchel09/CarRental>

### FE Sisko/HijjaShop

November 2024

Details : A fully functional e-commerce platform that allows users to browse and purchase products online.

Tools : React / NextJs, Vite, Tailwind CSS, Vercel

Github : <https://github.com/uchel09/edu-fesisco>

Demo : <https://hijjashop.vercel.app/>

### Chord Chell

October 2024 – November 2024

Details : The Chord Website is an interactive web platform that allows users to search and learn guitar chords from various songs. This website provides chord search, chord transpose, and auto scroll features.

Tools : React / Next Js, Next Api / Next action, MongoDB, Tailwind Css

Github : <https://github.com/uchel09/chord-c-next>

Demo : <https://chord-c-next.vercel.app/>

### Myqr

September 2024 - September 2024

Details : An application to manage products and app scanner products with barcodes to change pages.

Tools : Flutter, Getx, Firebase

Github : <https://github.com/uchel09/myqr>

## **Chelldemy**

*August 2024 - October 2024*

Details : This website is a multi-author e-learning platform that allows multiple authors (instructors) to create, manage, and distribute learning materials online.

Tools : React / Next Ts , Next Api, Next Action, MySQL Prisma, Tailwind CSS shadcn, Vercel

Github : <https://github.com/uchel09/chelldemy>

Demo : <https://chelldemy.vercel.app/>

## **Chell Chat**

*July 2024 - August 2024*

Details : A real-time web-based chat application designed to enable seamless communication between users.

Tools : React / Next Ts , Express Js ,Mongo Db, Websocket / socket.io, Tailwind Css, Vercel

Github : <https://github.com/uchel09/chell-photo-stock>

Demo : <https://chell-chat-app.vercel.app>

## **Chell Photo Stock**

*Maret 2024 - June 2024*

Details : A photo stock platform designed to connect photographers and clients in need of high-quality images. The application allows photographers to upload, showcase, and sell their photos, while clients can browse, purchase, and download images for their needs. The platform mimics popular social media features but focuses on the photography industry, creating a community for both photographers and free images platforms.

Tools : React / Next Js , Next Api, Next Action, Mongo Atlas, CSS, Cloudinary, Vercel

Github : <https://github.com/uchel09/chell-photo-stock>

Demo : <https://chell-photo-stock.vercel.app/>