

# Raihan Fathurrahman

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## SUMMARY

IT Service Delivery & Digitalization Specialist with hands-on experience in the Oil & Gas industry at PT Pertamina Hulu Rokan – Drilling Engineering HO. Proven in supporting users with IT-based solutions, automation of operational reporting, system utilization guidance, and technical data management. Experienced in bridging engineering workflows with digital systems to improve efficiency and service quality. Certified in Google IT Support, Cloud Computing, and Cybersecurity, with strong capability in troubleshooting, documentation, user training, and cross-functional collaboration.

## EDUCATION

### MUHAMMADIYAH RIAU UNIVERSITY

Computer Science

Pekanbaru

Oct 2021 – Jan 2025

Major in Informatics Engineering; Cumulative GPA: 3.84/4.0; Graduated in 3.5 years; Awardee Bidikmisi Scholarship.

Relevant Coursework: Algorithms; Cloud Computing; Deep Learning; Web Programming; Framework Programming.

## EXPERIENCE

### DRILLING ENGINEER IT DIGITALIZATION ASSISTANT

PT Pertamina Hulu Rokan – Drilling Engineering HO [Internship Program Batch 7]

Pekanbaru

Aug 2025 – Present

- Conducted user needs assessment and translated engineering requirements into practical digital solutions.
- Developed automated reporting tools that reduced manual processing time and minimized recurring errors.

### BANGKIT ACADEMY 2024 BY GOOGLE, GOTO, TRAVELOKA – MSIB BATCH 6 PROGRAM

Cloud Computing Cohort

Jakarta - Remote

Feb 2024 – June 2024

- Take an intensive 900+ hour program focused on mastering Cloud Computing with Google Cloud Platform (GCP) services such as Compute Engine, App Engine, Cloud Functions, and Cloud Storage.

- Understand the concepts of DevOps, CI/CD, and efficient cloud infrastructure management.

- Improve soft skills such as problem solving, communication, and team collaboration through industry training and mentoring sessions.

### NON-FORMAL SUPPORT STAFF

Office of Jon Erizal — Member of Commission VI, Indonesian House of Representatives

Pekanbaru

Sep 2021 – Feb 2024

- Assisted in organizing constituency visits (*reses*) and community outreach initiatives

- Managed social media content by creating posts, updating event activities, and ensuring consistent communication with constituents.

- Provided documentation through photography and videography, and assisted with basic administrative needs.

- Coordinated with local communities and stakeholders during field activities.

### LECTURER ASSISTANT

Pengolahan Citra Digital Course

Pekanbaru

Jan 2024 – Jan 2024

- Assisted the lecturer in delivering course content on digital image processing, covering fundamental concepts and image processing techniques.

- Supervised laboratory sessions and guided students in implementing image processing algorithms using relevant programming tools.

## PROJECTS

### STICK CHARTS AUTOMATION SYSTEM

Internship Project – PT Pertamina Hulu Rokan

Sep 2025 – Nov 2025

- Developed an integrated automation and visualization system for oil & gas well data, enabling dynamic parsing of casing summary, automated classification of wellbore types, and real-time stick chart generation.
- The project features a user-friendly filtering interface for well selection, streamlining reporting and accelerating decision making in upstream operations.
- Enhanced efficiency and reduced repetitive manual work for drilling engineers.

### LONG SHORT-TERM MEMORY FOR FRESH FRUIT BUNCH PRICE FORECASTING

Thesis Project

Sep 2024 – Jan 2025

- Designed and developed a time series forecasting model to predict Fresh Fruit Bunch prices in Riau Province using the LSTM algorithm based on 10 years of weekly data (2014–2024) as a final project (Skripsi).

- Performed data preprocessing including noise reduction, feature selection and data splitting with 2024 reserved for testing to simulate real-world forecasting.

- Demonstrated the model's capability to capture temporal patterns and provide decision-support insights for stakeholders in the palm oil industry, particularly in Riau Province, Indonesia.

### TRANSFER LEARNING APPROACH FOR EYE DISEASE CLASSIFICATION USING IMAGES WITH CNN-INCEPTIONV3

Research Project

Dec 2024 – Jan 2025

- Developed a deep learning model for eye disease classification using transfer learning with the InceptionV3 architecture, leveraging pre-trained weights to improve accuracy and reduce training time.
- Utilized 1559 dataset of eye images, applying preprocessing and augmentation techniques to enhance model performance and generalization.
- Achieved promising classification results across multiple eye conditions and compiled the research findings into a scientific journal manuscript.

### RECHARGE RIAU

Academic Project

Dec 2024 – Jan 2025

- Led a team in developing an interactive web-based Geographic Information System (GIS) map application to visualize Electric Vehicle Charging Stations (EVCS) in Riau Province, Indonesia.

- Employed QGIS2Web for spatial visualization, integrated with a PHP backend and MySQL database.

- Deployed the application to Google Cloud Platform (GCP) for scalable and public web access.

### EYETIFY

Capstone Project – Bangkit Academy

Apr – June 2024

- Led a team in developing deep learning-based mobile application for early detection of eye diseases through image classification, integrating machine learning models with the backend to enhance job matching.

- Designed and built scalable APIs using Express.js and Firestore, deployed on Cloud Run and App Engine for availability.

- Optimized cloud resources, managing Cloud Storage for secure data handling and ensuring cost-effective allocation.

## CERTIFICATION

### GOOGLE IT SUPPORT

Coursera-Google

April 2024

- Mastered basic IT support skills including troubleshooting, customer service, and system administration.

- Gained hands-on experience in networking, operating systems, and IT security.

- Completed 5-course program developed by Google to prepare for entry-level roles in IT support.

### GOOGLE CLOUD COMPUTING FOUNDATIONS CERTIFICATE

Google Cloud

April 2024

- Mastered cloud computing fundamentals using Google Cloud Platform.

- Completed 4 core modules & 4 hands-on skill badges (Compute Engine, BigQuery, IAM, etc).

- Gained knowledge in infrastructure, networking, security, data, ML, and AI on cloud.

### GOOGLE CYBERSECURITY

Coursera-Google

July 2024

- Learned core cybersecurity concepts including risks, threats, vulnerabilities, and mitigation strategies.

- Gained hands-on experience in beginner-level Python, Linux, SQL, as well as SIEM and IDS tools.

- Completed 8-course program developed by Google to prepare for entry-level roles in cybersecurity.

## AWARDS

### BEST GRADUATE OF CLASS XXVIII WITH CUMLAUDE PREDICATE

Universitas Muhammadiyah Riau

Pekanbaru

May 2025

## ADDITIONAL

**Technical Skills:** APIs, Data Analytics, PowerBI, PHP, Python, JavaScript, Node.js, Laravel, React, Google Cloud, Docker, CI/CD, MySQL, SQL Server, Macro VBA, MsOffice.

**Soft Skills:** Communication, Problem Solving, Research, Team Work, Time Management.

**Languages:** Fluent in Indonesian, Upper Intermediate in English.

**Publication:** Transfer Learning Approach for Eye Disease Classification using Images with CNN-InceptionV3.