# Zacharia Bachtiar

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## About Me

A fresh graduate of Software Engineering in Telkom University with a GPA of 3.91. Enrolled as a student in Purwadhika Digital Technology School studying Data Science and Machine Learning. I had 2 experience as an intern in the software department, and 1 part-time experience as a practicum assistant. I excel at both teamwork and individual work, adapting quickly to new environments and challenges. Currently looking for a job/internship as a Data Scientist, Machine Learning/AI Engineer, Data Analyst, or Data Engineer.

## Skills

- Python | Golang | Gin | Node.js | Express.js | React.js | Strapi | Microsoft Office
- Apache Spark | Tableau | Looker Studio | Scikit Learn | Statsmodels | Google Colab
- BigQuery | MySQL | PostgreSQL | MongoDB | Prisma | Katalon | Docker | Git/GitHub/Gitlab

## Experiences

**Data Science,** *Student*   Purwadhika Digital Technology School   *Jakarta, Indonesia*   06/2024 - 09/2024

- Dedicated 4 months gaining deep knowledge in Python Programming, Data Analysis, and Machine Learning, developed 8 impactful projects.
- Conducted extensive data analysis using Tableau and Looker Studio, along with Python libraries for exploratory data analysis.
- Explored various AI and machine learning concepts, including different model algorithms and metrics, deep learning techniques, and data processing with Apache Spark.

**Back-end Developer,** *Intern*   Telkom Indonesia   *Bandung, Indonesia*   09/2023 – 02/2024

- Assisted and collaborated with the developer team in the backend operations using Gitlab and Node.js.
- Performed unit test automation for backend APIs using Mocha as a testing library.
- Performed query creations on a third party data services called BigQuery (BigBox) and recorded 350+ API using Sheets.

**Programmer,** *Intern*   LDKPI - Ministry of Finance   *Jakarta, Indonesia*   06/2023 - 08/2023

- Developed a front-end web application with multi-language features for LDKPI using React.js.
- Developed a web API integrated with the front-end using the headless CMS Strapi.js.
- Performed manual deployment to a remote server (Linux CentosOS) and configured the server using Nginx.

**Practicum Assistant,** *Part-time*   Informatics Laboratory Telkom University   *Bandung, Indonesia*   02/2023 – 07/2023

- Providing guided assistance twice a week to practicum students on *Operating Systems* such as *Linux, Ubuntu,* and *Xinu*.
- Supervise the flow of the practicum process for 70+ practicum students.

## Education

**Bachelor of** *Software Engineering*   Telkom University   *Bandung, Indonesia*   2020 - 2024

- Graduated with honors (Cum Laude) and achieved a GPA of 3.91.
- Staff of Creative Media of the Software Engineering Student Association.
- Staff of Education Division of the IEEE Telkom University Branch.
- Staff of Movie Making Division of the Student English Society.

## Relevant Projects

- **Telco Customer Churn Classification**: Developed a machine learning model for classification prediction to predict churn rate of Telco customers using comparison of various models (XGBoost, Voting Classifier, KNN, RandomForest, etc.) and techniques, including sampling, feature selection, and evaluation methods. **(09/2024)**
- **Airbnb Bangkok Listing Analysis**: Conducted a deep data analysis on Airbnb Bangkok listings data using Python along with Tableau for story-based visualization to extract profitable insights and enhance business understanding. **(09/2024)**
- **School Student Performance Prediction**: Developed a machine learning model for multiple linear regression to predict student performance score using various models (Linear Regression, Ridge, Lasso, SVR, etc.) and common relevant metrics such as Adjusted R-Squared, RMSE, and Residual Analysis. **(09/2024)**
- **Gold Prices Forecasting**: Developed a machine learning model for forecasting future gold prices, comparing algorithms like ARIMA, SARIMA, and Prophet to determine the best-predicting model. **(09/2024)**

## Certifications

- **Complete Web Development**: Certificate from Udemy for completing a course on Fullstack Web Development. **(08/2022)**
- **Cloud Practitioner Essentials**: Certificate from Dicoding for completing a course on understanding AWS, EC2, S3, and Lambda. **(01/2023)**
- **Problem Solving Basic**: Certificate from HackerRank for completing challenges on Algorithms and Data Structures. **(01/2023)**