

MICHAEL HAKKINEN

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Portfolio: <https://michaelhakkinen.github.io/>

Github: <https://github.com/MichaelHakkinen>

EDUCATION

Bina Nusantara University, Jakarta, Indonesia

2019 - 2025

Bachelor of Science in Computer Science, GPA 3.0/4.0

Relevant Courses:

- Software Engineering, Object-Oriented Programming, Machine Learning, Artificial Intelligence, Data Structures, Algorithm Design and Analysis

WORK EXPERIENCE

Software Engineer - Bina Nusantara University, Jakarta, Indonesia

2022 - 2023

- Collaborated with a team of 3 developers and 1 database specialist to implement and evaluate BERT-based models for text analysis.
- Applied SMART fine-tuning techniques on multiple BERT architectures to enhance model performance and generalization.
- Designed and executed experiments to compare model accuracy, loss trends, and training efficiency across variants.
- Extracted raw text documents into a database server using cheerio with Node.js to prepare a variety of dataset to be processed.
- Research paper documentation, summarizing findings, evaluation metrics, and technical insights.
- Co-authored a research detailing findings and methodologies, contributing to the academic community's understanding of NLP advancements.

Notable Projects

- Developed a **Laravel-based scheduling web application** with **user authentication, role-based access, and responsive UI** for managing study schedules and appointments. Optimized database queries and scheduling logic, reducing load time by 30% and improving overall system responsiveness.
- Developed a **machine learning model** for detecting and visualizing mental health sentiment from text inputs using **NLP preprocessing** and **TF-IDF vectorization**. Compared multiple algorithms, achieving 85% accuracy after parameter tuning. At the same time improved model interpretability and visualization using Matplotlib and Seaborn for each analysis.
- Created a **scrollable, responsive single-page website** showcasing company products, profile, and contact sections for a coal company. Optimized front-end performance achieving faster load times and mobile responsiveness across all devices which enhanced user engagement with interactive design, animations, and hover-based effects for a professional and clean look.

Hospitality - Color Aisa Live, Jakarta, Indonesia

2024 - 2025

- Provided premium hospitality services to artists, managing logistics, accommodations, and communication to ensure seamless experiences.
- Coordinated event operations (catering, scheduling) with strong attention to detail, emphasizing user-centric solutions.

Notable Artist:

- Mariah Carey, Richie Jen, Michael Guang Liang, Brian McKnight, The Script, Jonas Brothers, David Foster, Katharine McPhee, Josh Groban, Cocomelon

TECHNICAL SKILL

Python

Visual Studio Code

MySQL

Vue.js, React.js

Java

C++

HTML, CSS, JavaScript

Word, Excel and Powerpoint