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 hospitality and backstage support for international artists**, overseeing logistics, accommodations, scheduling, and real-time communication to ensure smooth, high-quality experiences.
- **Coordinated cross-functional event operations** including catering, vendor management, technical crews, and security, demonstrating strong project **management**, **teamwork**, and **stakeholder coordination**.
- Applied a **user-centric** and **solution-oriented approach** to handle fast-paced event challenges, showcasing strengths in **communication**, **adaptability**, and **problem-solving skills**.
- Managed task prioritization, documentation, and on-site workflows with **high attention to detail**, ensuring operational efficiency and reliable execution under pressure.

Notable Artist:

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

TECHNICAL SKILL

| Phython | Visual Studio Code | MySQL | Vue,js, React.js |
| Java | C++ | HTML, CSS, JavaScript | Word, Excel and Powerpoint |