

# MICHAEL HAKKINEN

Kelapa Gading, Jakarta Utara

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

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

## PROFILE SUMMARY

Software Engineer with hands-on experience in backend and full-stack development, NLP research, and data-driven experimentation. Skilled in Python, JavaScript (React, Node.js), and database systems (MySQL), with a strong foundation in software engineering principles, algorithms, and APIs. Proven ability to work collaboratively on cross-functional teams and deliver high-impact solutions.

## TECHNICAL SKILL

<b>Languages</b>	: Python, Java, C++, JavaScript
<b>Web &amp; Frameworks</b>	: React.js, Vue.js, Laravel, HTML, CSS
<b>Backend &amp; Databases</b>	: Node.js, MySQL, RESTful APIs.
<b>Tools</b>	: Git, VS Code
<b>ML/NLP</b>	: BERT, TF-IDF, NLP preprocessing

## WORK EXPERIENCE

### Software Engineer (Research/Development) – Bina Nusantara University, Jakarta, Indonesia      2022 – 2023

- Collaborated with a team of 3 developers and 1 database specialist to implement and evaluate BERT-based NLP models, improving performance and generalization for text analysis tasks.
- Applied SMART fine-tuning techniques across multiple architectures to boost model accuracy and efficiency.
- Designed and executed comparative experiments tracking training loss, accuracy trends, and efficiency metrics.
- Built ETL workflows using Cheerio & Node.js to extract raw documents into MySQL for model training.
- Documented research findings, metrics, and technical insights; co-authored a research paper contributing to NLP academic understanding.

#### Key Projects:

- Scheduling Web App: Built with Laravel, featuring user authentication, RBAC, and responsive UI; optimized database logic to improve load time by 30%.
- Mental Health Sentiment Model: Developed ML model using NLP preprocessing and TF-IDF; achieved 85% accuracy and created visual analysis dashboards.
- Company Web Showcase: Created responsive, scrollable single-page site; optimized frontend for performance and mobile responsiveness.

### Hospitality & Event Operations – Color Asia Live, Jakarta, Indonesia

- Coordinated logistics, vendor management, and real-time support for international artists.
- Managed cross-functional event execution with strong communication and adaptability under pressure.
- Prioritized tasks, documented workflows, and ensured smooth operations in fast-paced environments.

#### Notable Artist:

Mariah Carey, Richie Jen, Michael Guang Liang, Brian McKnight, The Script, Jonas Brothers, David Foster

## 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