

# MICHAEL KO

## Professional Summary

Junior software developer specializing in data engineering, machine learning, and analytics-driven applications. Experienced in building dashboards, mobile app prototypes, and automated portfolio tools using Python, Flutter, and cloud services. Brings structured problem-solving and analytical rigor to designing and delivering solutions in fast-moving, evolving environments.

## Career Objective

Seeking a junior software engineering role where I can apply my Applied Information Engineering foundation, adapt quickly across system architectures, and build modular, scalable software.

## Skills

### Coding Proficiency

HTML, Javascript, PHP, AJAX, MySQL, Python, Dart

### Tools & Technologies

Adobe Suite, Figma, LucidChart, Github

### Languages

English - Native (TOEFL IBT score 116/120)

Korean - Intermediate

## Contact & Links

-  mike.kog6@gmail.com
-  +82-10-8024-4092
-  [linkedin](#)
-  [github](#)
-  [portfolio](#)

## Experience

### Marketing Consultant - ALTAVA Group

Jan 2022 - Jul 2022

- Steered product decision-making for Altava's mobile game by performing a systematic feature benchmark across leading metaverse and mobile-game platforms, mapping gameplay mechanics, and UX flows, resulting in two new features being greenlit and reducing development time on low-value or unnecessary features by 35% during the alpha stage.
- Guided the company's NFT launch strategy by benchmarking UX flows, monetization models, and engagement systems across metaverse platforms, applying comparative UX mapping to align product and marketing decisions reducing UX revision cycles by 30% and boosting pre-mint engagement by 18% through clearer, streamlined user flows.
- Informed leadership decision-making for NFT initiatives by analyzing tokenomics models, on-chain activity, and shifts across major crypto ecosystems, producing structured risk-opportunity briefs that guided strategic discussions to inform mint pricing models and token reward schedules.
- Accelerated production delivery for NFT-related features by coordinating workflows between product, development, and QA teams, using structured sprint alignment and feasibility reviews resulting in roughly a 20% reduction in delays for marketing-linked feature releases.

### Global Marketing Operations Analyst - ZEMU Skincare

May 2017 - Dec 2021

- Maximized product visibility and optimized conversion potential on Amazon by refining visual hierarchy, streamlining navigation patterns, and aligning the storefront to modern design-system standards resulting in 20% faster product discovery and a 12% improvement in overall conversion-funnel efficiency.
- Streamlined fulfillment performance by analyzing communication gaps with Amazon's Fulfillment Centers, identifying root causes of SKU-labeling errors, and organizing restock coordination through structured issue-tracking and inventory-alignment frameworks reducing shipment discrepancies by 15% and improving overall fulfillment reliability.
- Built and maintained analytics workflows for global social channels by evaluating content performance, identifying growth opportunities, and benchmarking competitors, enabling data-driven content planning and driving a 12% increase in audience engagement across priority markets.
- Developed an Excel-based predictive scoring model that integrated creator, audience, market, and competitive datasets to forecast impact and rank overseas influencer partners, contributing to a 22% increase in new customer traffic.

## Education

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**Yonsei University**, Seoul, Korea - Bachelors in Applied Information Engineering

Sep 2016 - Aug 2025 (graduated)

### Course Summary

Developed Core skills in software engineering, algorithms, systems, and AI, applying them through technical projects in C++, Python, mobile development, and machine-learning workflows.

- **Natural Language Analysis** – Decision trees, logistic regression, and classification methods for foundational NLP.
- **Open Source Software** – Developed projects using MCP servers, AI agents, and LangChain-based tools.
- **Object-Oriented Programming** – Gained experience implementing OOP principles and building C++ simulations.
- **Capstone Design** – Executed full-cycle planning, design, and development of a team software project.
- **Computing Systems** – Computer architecture, operating systems, networks, memory, and process management.
- **Applied Mobile Programming** – Developed cross-platform applications in Flutter and modern mobile techniques.
- **Information Technology & Security** – Cybersecurity concepts, attacks, defenses, and cryptographic techniques.
- **Algorithm Applications** – Implemented algorithmic problem-solving and analyzed time complexity.
- **Discrete Structure Theory** – Mastered discrete math including logic, automata, permutations, and algorithms.
- **Application Data Structures** – Applied core data structures arrays, lists, stacks, trees to computational problems.
- **Basic AI Mathematics** – Focused on linear algebra, information theory, and math foundations for deep learning.
- **Visual Information Analysis** – Created workflows for deep-learning data prep and model training.

### Wcoding - Fullstack Intensive Bootcamp

Sep 2023 - Dec 2023

- Immersive program focused on core CS principles and hands-on engineering with HTML, CSS, JavaScript, PHP, and SQL, gaining foundational skills for coding frameworks and seamless adaptation to evolving technologies.
- Collaborated on sprint-based team projects with rotating scrum-master responsibilities, strengthening my ability to manage timelines, facilitate team alignment, and deliver iterative software in an Agile environment.
- Led simulated shareholder meetings to communicate decisions and practice stakeholder alignment, strengthening my ability to present clearly and justify engineering choices.
- Became integrated into a community of professional software developers, gaining exposure to industry practices, engineering workflows, and collaborative coding environments.

### Independent Software Projects

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- **Market Volatility Dashboard** - Python tool modeling volatility regimes with GARCH, K-means, and yFinance to surface risk trends and anomaly signals.
- **Stock Portfolio Chatbot** - LangChain + MongoDB chatbot that logs trades and returns real-time Profit/Loss and portfolio performance on command.
- **Flutter Banking App** - Flutter + Firebase prototype with multi-account support, currency conversion, and real-time transaction flows.