

# KIBAEK KIM

Long Island City, NY 11101 | 917-304-8404 | Kk3789@columbia.edu  
<https://www.linkedin.com/in/kibaek-kim-2018> | <https://github.com/hyper07>

## PROFESSIONAL SUMMARY

Results-driven Full-Stack AI Engineer with 15+ years of experience architecting scalable solutions in Education and Manufacturing. Proven expertise in AI/ML implementation (LLMs, RAG), cloud infrastructure (AWS), and full-stack development. Track record of reducing operational costs by 90% through intelligent automation. Currently pursuing a Master's in Applied Analytics at Columbia University.

## TECHNICAL SKILLS

- **AI/ML:** Large Language Models (LLM), RAG Implementation, NLP, Reinforcement Learning, Scikit-learn (XGBoost, PCA, Isolation Forest), CNN, RNN.
- **Languages & Backend:** Python, Node.js, PHP, TypeScript, FastAPI, Flask, Symfony.
- **Frontend:** React, HTML5, CSS3, Streamlit.
- **Cloud & DevOps:** AWS (Solutions Architect Associate), Docker, PostgreSQL, Amazon Redshift, GitHub Actions, Jenkins, CI/CD Pipelines.
- **Integrations:** RESTful APIs, BigBlueButton, HubSpot, NetSuite.

## PROFESSIONAL EXPERIENCE

### Founder & AI Engineer | Dotori.ai | New York, NY

July 2024 – Present

- Launched gamified AI education platform serving K-12 users with real-time feedback systems.
- Engineered custom open-source LLMs optimized for specific grade levels, enabling on-device deployment across iOS and Android.
- Designed Git-inspired LLM training workflow featuring version-controlled datasets and RAG integration for dynamic knowledge updates.
- Established partnerships with DeviantArt and Vecteezy while integrating ChatGPT, Claude, and Gemini APIs to reduce GenAI operational costs by 40%.

### Senior Full-Stack Engineer | The NSLS | Orlando, FL

May 2019 – Present

- Spearheaded platform modernization by migrating legacy Drupal system to React/Symfony architecture, improving performance by 60%.
- Architected Business Intelligence platform on Amazon Redshift with interactive dashboards, eliminating 90% of manual data requests.
- Developed AI-powered mentoring platform leveraging LLMs and Python to deliver personalized user experiences.
- Automated integrations with HubSpot, NetSuite, and BigBlueButton, reducing manual workflows by 90% and accelerating data synchronization from hours to minutes.

- Optimized backend performance through pipeline design and query optimization, achieving 50% faster data processing speeds.
- Mentored 8+ junior developers on coding standards and CI/CD pipelines using GitHub Actions.

### **Senior Software Engineer, Manager | Kiss Products, Inc. | Port Washington, NY**

*September 2009 – November 2018*

- Led engineering team of 4 developers, delivering enterprise software solutions using PHP, Symfony, JavaScript, and C#.
- Architected real-time data processing systems with Node.js and PHP, ensuring 99.9% uptime.
- Built real-time ordering system, improving order accuracy by 35% and reducing response times from hours to minutes.
- Implemented cloud infrastructure with automated backup and disaster recovery protocols.
- Developed RESTful APIs enabling third-party integrations, improving interoperability by 50%.

## **EDUCATION**

### **Master of Science in Applied Analytics | Columbia University | New York, NY**

*Expected December 2025*

- **Capstone:** Anti-Money Laundering (AML) Detection System. Engineered AML monitoring application using a hybrid approach (Supervised Learning & Rule-based). Applied PCA for dimensionality reduction and implemented HBOS and Isolation Forest models. Delivered production-ready application using Docker.
- **Leadership:** President, Consulting Club (2025); Program Representative (2025).

### **Bachelor of Engineering | The City College of New York | New York, NY**

*September 2011*

## **CERTIFICATIONS**

- AWS Certified Solutions Architect – Associate (AAS)
- Java SE8 Programmer
- Linux Professional Institute Certification (LPIC-3)
- CompTIA A+

## **LANGUAGES**

- English (Fluent), Korean (Native)