TaeKyung Kwak

AI/Data Engineer | Fullstack App Developer

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Korean, English

BACKGROUND

ABOUT

Enjoy working with AI and Coding, with particular interest in AI/Data, Flutter, and Rust.
Development does not end at implementation — Value understanding concepts deeply and applying them to real services.
Growing as a Machine Learning Engineer and AI-driven service developer, with experience in App launches, Dataset publication, Hardware optimization, and Offline team collaboration.

PROJECTS EXPERIENCE

Cat Can Talk

- Present

A Flutter + FastAPI based chatbot app, can see a real-time animated GIF of a cat's emotions.

- Leveraged Upstage Solar Pro 2 for good performance and a low-cost API
- Deployed on AWS EC2, Firebase.
- Used nginx, certbot for https authentication.

Collatz Conjecture project

- Present

Generated and published a 100m Collatz sequence dataset.

- Published on Hugging Face with 500+ downloads, Graph page viewed 1000+ times
- Optimized computation using Rust, C++, and Cuda
- Draw graph using Matplotlib

VS Code Sketchbook Theme

- Present

A custom VS Code theme with Orbit fonts and unique color palettes.

- 70+ installs on VS Code Marketplace
- Featured in Flutter Developer Community, Linkedin

d3letters

- Present

App that comes with 3 letters a day.

- The letter is a good sentence. It is excerpted from sentences in CBT, philosophy, literature, etc.
- Using GitHub Gist, letter maintenance is possible without updating the app.

poe chatbot

- Present

Two philosopher chatbots available on the Poe platform

- Socrates, Marcvs Avrelivs persona.

Blog with Flutter and SEO

- Present

Moving from Gitbook to a site I developed myself.

- 3,000+ visitors per month in Gitbook
- I developed my own blog for freedom.
- Azure static web app, Firebase, Flutter, Zola
- To achieve both design and SEO, I used Flutter and HTML.
- Flutter, Firebase, and Azure have been connected, and details are under development.

project plan

- Present

This is a planned project.

- Developing **visualizing Keras, data structures/algorithms**. I plan to use Flutter, Python packages, and Matplotlib.
- Developing **store automatic payment program**. It can be installed as an app on tablets, and custom designs are provided for each store. Flutter and TossApi are planned to be used.
- I felt uncomfortable with the unintuitive grammar of the pandas, and I got to know the Polars. I am looking for and studying the parts that can be **contributed in the Polars** > Numpy zero-copy function, `__array__`.

SKILLS

Programming

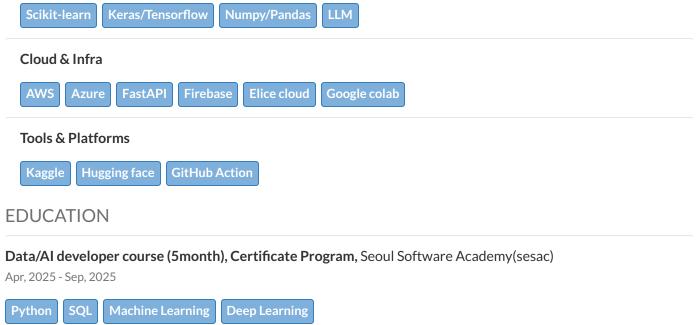`Python` `C/C++` `Rust` `Dart/Flutter` `C#/Unity`

Machine Learning

Scikit-learn   Keras/Tensorflow   Numpy/Pandas   LLM

Cloud & Infra

AWS   Azure   FastAPI   Firebase   Elice cloud   Google colab

Tools & Platforms

Kaggle   Hugging face   GitHub Action

EDUCATION

Data/AI developer course (5month), Certificate Program, Seoul Software Academy(sesac)

Apr, 2025 - Sep, 2025

Python   SQL   Machine Learning   Deep Learning

High School, High School, Daeyoung High School

Mar, 2017 - Feb, 2020

Science track

CERTIFICATES

Information Processing Craftsman, National Technical Qualification

Issued on: Sep 30, 2025

AWARDS

Korean Olympiad in Informatics 2013 , Korea

Awarded on: Sep 01, 2013

Seoul Silver prize