

# Hoyeol Kim

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ML Data Linguist | iOS Developer

## Experience

### Amazon Web Services – AI Data, Machine Learning Data Linguist III | Texas, USA

Jul 2022 - Present

- I evaluate transcriptions and improve annotation, segmentation, tools for data QA, and guidelines for data/QA vendors.
- I created a medical terminology list and metrics to evaluate datasets for HealthScribe and provided feedback to vendors.
- I have been writing Python scripts for a weekly and monthly report tool, both for generating new reports and for maintenance.
- I have worked on data QA and model evaluation for datasets from vendors and for projects such as HealthScribe, ITN, toxicity detection, and text summarization. I also worked on data evaluation for RLHF, Responsible AI, and RAG for Amazon Titan (LLM).
- I have maintained the team dashboard in React, using AWS Lambda and CloudFront, and improved its performance.

### Deepgram, Multilingual NLP Analyst | Contract | San Francisco, California, USA

Apr 2022 - Jul 2022

- I evaluated and improved the performance and outputs of end-to-end deep learning ASR models, assessed multilingual data for variance in labeling, and worked on text cleaning pipelines.

### Texas A&M University, Graduate Instructor | College Station, Texas, USA

Aug 2017 - May 2022

- I taught a course per semester, such as “Topics in Digital Research” (<https://elibooklover.github.io/ENGL304-Spring2021>)

### Gindo Solution, Project Manager & iOS Developer | Part-time | Arlington, Virginia, USA

Nov 2017 - Oct 2018

- I managed projects and guided UI/UX designs and functional developments for both Android and iOS apps.
- I developed several functions, such as notifications with badges, point systems, and payment functions, using UIKit and RESTful APIs.

### Tulango Marketing Lead | Seoul, South Korea

May 2016 - Nov 2017

- I worked on language data for automatic tests, localized the app languages in English, Spanish, and Korean.
- I managed both online and offline app ads. Through online advertising, I gathered around 2,000 users in two weeks.

## Education

### Texas A&M University, PhD in English–Computational Literary Studies | College Station, Texas, USA

Aug 2017 - May 2022

- Dissertation: “Computational Approaches in the Humanities: from Sentiment Analysis to Deep Learning Colorization.”
- Sentiment Analysis - Syuzhet and its Lexicons: <https://digitalhumanities.org/dhq/vol/16/2/000612/000612.html>
- Colorization with cGANs: <https://eupublishing.com/doi/abs/10.3366/ijhac.2021.0269?journalCode=ijhac>

### Georgia Institute of Technology, MS in Computer Science | Atlanta, Georgia, USA

Aug 2024 - Present

- OMSCS with a focus on Machine Learning and Human-Computer Interaction.

### Colorado State University Global, Certificate in Computer Programming | Aurora, Colorado, USA

Aug 2023 - Apr 2024

- My overall GPA is 4.0. I took the following courses: Programming I, II, and III (Java & C++), Data Structures and Algorithms, Software Engineering, and Platform-Based Development (Kotlin).

### University of Exeter, MA in English Literary Studies | Exeter, UK

Sep 2013 - Nov 2014

### Hankuk University of Foreign Studies, BA in English Literature & Linguistics | Seoul, South Korea

Feb 2013

## Skills

<b>Programming</b>	I use Python and SQL for data management and analysis, and Swift, RN, and Kotlin for mobile development. During my PhD research, I utilized Python, R, SAS, PyTorch, and TensorFlow. I also learned Java and C++ through coursework.
<b>Software</b>	I am familiar with Bash, Unix, and Linux environments, in addition to Git version control.
<b>Certificates</b>	I hold a SAS Certified Base Programmer for SAS 9 certificate and a Japanese Language Proficiency Test N3 certificate.

## Projects (Selected)

### Colorizer – Colorizes Photos (iOS & Android)

Jul 2024

GitHub: <https://elibooklover.github.io/Colorizer/>

- The Colorizer app colorizes black and white images. I developed this app, using React Native (Expo), Flask, and PyTorch.

### SafeKey – Password Manager (iOS)

Jan 2024 - Feb 2024

iOS App Store: <https://apps.apple.com/us/app/safekey-password-manager/id6475980444>

- A secure password manager that supports syncing through iCloud. I developed this app based on MVVM, using SwiftUI, SwiftData, CloudKit, StoreKit, Local Authentication, UserDefaults, and UITextField.

### NeonLED – LED Banner (iOS)

Nov 2023

iOS App Store: <https://apps.apple.com/us/app/neonled-led-banner/id6474363843>

- I developed this app in SwiftUI based on MVVM and localized it for languages, such as Korean and Japanese.

### KoreanKitchen (Android)

Jan 2024 - Mar 2024

GitHub: <https://github.com/elibooklover/Kotlin-Projects>

- I developed this app in Kotlin based on MVVM, utilizing RecyclerView, CardView, JSON parsing, Glide for image loading, Parcelable for data transfer, and animated view transitions.

### K-Town Rewards (iOS)

Nov 2017 - Oct 2018

iOS App Store: <https://appadvice.com/app/k-town-rewards/1374362677>

- I developed this app in UIKit based on MVC, implementing features like badge notifications, point systems, and payment functions.