Hoveol Kim

hoyeol.kim@proton.me | github.com/elibooklover | linkedin.com/in/hoyeol-kim-phd-82723663 Lead ML Data Linguist at AWS | iOS Developer

Experience

Amazon Web Services - Al Data, Lead Machine Learning Data Linguist | Texas, USA

Jul 2022 - Present

- I evaluate transcriptions and improve annotation, segmentation, tools for data QA, and guidelines for data/QA vendors.
- I write scripts to analyze and manage ML data, in addition to computing metrics, and write code for a weekly/monthly report tool.
 I work on data QA and model evaluation for the automatic generation of clinical notes (HealthScribe) and for toxicity detection.
- I work on the data evaluation for RLHF, Responsible AI, and RAG for Amazon Titan (LLM).

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.
- · I evaluated multilingual data for variance in labeling, proposed better approaches for multilingual model architecture, and improved 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" (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 notification with badges, point systems, and payment functions, using UlKit and Firebase.

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 with Computational Literary Studies | College Station, Texas,

Aug 2017 - May 2022

USA | Supervised by Maura Ives, Amy Earhart, Shawna Ross, and Ruihong Huang (CS)

- Dissertation: "Computational Approaches in the Humanities: from Sentiment Analysis to Deep Learning Colorization."
- Sentiment Analysis Syuzhet and its Lexicons: digitalhumanities.org/dhq/vo1/16/2/000612/000612.html
- EDA of Victorian 400 Dataset with cGANs: euppublishing.com/doi/abs/10.3366/ijhac.2021.0269?journalCode=ijhac

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

Aug 2023 - Apr 2024

• My overall GPA is 4.0. I have completed 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 & Linquistics | Seoul, South Korea

Feb 2013

Skills

I use Python with pandas for data management and analysis, as well as Swift for iOS development on a daily basis. **Programming**

During my PhD research, I utilized Python, R and SAS.

I am familiar with Bash, Unix, and Linux environments, in addition to Git version control. Software

I hold a SAS Certified Base Programmer for SAS 9 certificate and a Japanese Language Proficiency Test N3 certificate. **Certificates**

Projects

SafeKey - Password Manager (iOS)

Jan 2024 - Present

iOS App, Personal Project: apps.apple.com/us/app/safekey-password-manager/id6475980444

 A secure password manager that supports syncing through iCloud. I developed the app using SwiftUI, SwiftData, CloudKit, StoreKit, Local Authentication, UserDefaults, and KitTextField.

NeonLED - LED Banner (iOS)

Nov 2023 - Present

iOS App, Personal Project: apps.apple.com/us/app/neonled-led-banner/id6474363843

I created this app from scratch, using SwiftUI and StoreKit. I also localized languages in the app, such as Korean and Japanese.

Transliter (Python) Python Library, Personal Project: pypi.org/project/transliter

Apr 2023 - Present

- Transliter transliterates multilingual text into Latin script.
- Transliter supports Korean, Japanese, Russian, Ukrainian, Bulgarian, Macedonian, Mongolian, Montenegrin, Serbian, and Tajiki.

AI Data Monthly/Weekly Business Reports (Python)

Apr 2023 - Present

Python Scripts, AWS AI Data

All the data are extracted through API calls, processed through pandas, and exported as CSV files.

Victorian400 (ML Dataset)

Dec 2019

ML Dataset, Research Project: kaggle.com/datasets/elibooklover/victorian400

• I created, curated, and shared 400 image files for conditional generative adversarial networks to train with for a colorization project.

K-Town Rewards (iOS)

Nov 2017 - Oct 2018

iOS App: appadvice.com/app/k-town-rewards/1374362677

• I developed the app in UIKit, implementing features like badge notifications, point systems, and payment functions.