

Yunchae Kim

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SKILLS

Frontend development: JavaScript (React, Gatsby), CSS (Tailwind, SCSS)

Languages: Java, Python (machine learning, natural language processing, web crawling, Django, Sphinx), Bash

Database: AWS, MySQL, Neo4j, MongoDB, Spark

UI/UX: Adobe Creative Suite (XD, Photoshop, Lightroom), Figma, ProtoPie, Zeplin, Flow diagrams, Storyboarding

EDUCATION

University of Pennsylvania

Philadelphia, PA

Master of Computer and Information Technology

2021 – 2023

- Activities: Google Developer Student Clubs (Lead Web Developer)
- Courses: Data Structure, Algorithms, Big Data Analytics, Database and Information Systems, Web Design

Korea University

Seoul, South Korea

Bachelor of Business Administration (GPA: 4.33/4.5, summa cum laude)

2014 – 2020

WORK EXPERIENCE

University of Pennsylvania Dept. of Biostatistics, Epidemiology & Informatics Lab

Philadelphia, PA

Programmer

07/2023 – 10/2023

- Managed Comptox AI, an AI toxicology data application, using **Python**, **React**, **GitHub Action**, and **Neo4j**
- Migrated Comptox AI to **AWS EC2 NGINX** server, and automated tests and updates to EC2 with **Bash** script
- Developed features for querying chemical node data, using **Python** and **Neo4j**
- Ensured quality assurance through test creation, issue management, and code formatting standardization with lints
- Modernized legacy code by addressing errors, resolving package conflicts, and enhancing modularity

Wharton Risk Center

Philadelphia, PA

Research Assistant

01/2022 – 05/2023

- Developed a flexible survey platform capable of collecting text and voice responses via Amazon MTurk using **Gatsby**
- Created an automatic Amazon scraper with **Python**, successfully gathering over 400k reviews within four days

Storicity (yodatrip.com)

Seoul, South Korea

Frontend Developer / Product Manager

09/2020 – 03/2021

- Spearheaded the development and launch of "Yoda Trip," an automated travel itinerary service, achieving 500k downloads; responsibilities included feature ideation, prototyping, and programming using **React** and **Tailwind**
- Defined UI/UX design standards, streamlining the transition from design to development with **ProtoPie** and **Zeplin**

Boston Consulting Group

Seoul, South Korea

Production & Marketing Support

07/2019 – 08/2020

- Led renovation of publication production processes as the assigned support specialist.
- Established the method of collecting production data, analyzing bottlenecks and recurring errors, and applying practical solutions, to reduce lead time (15%) and error costs (12%) for an annual productions worth 50k USD

Korea University Cognitive Systems Lab

Seoul, South Korea

Research Intern

12/2018 – 04/2019

- Researched emotion classification in movie clips using **Python** and **Speech-to-Text API** to analyze spoken dialogue (Data source: *Acted Facial Expressions in The Wild (AFEW)* pre-labeled movie scene dataset)
- Developed and trained an interpretable multinomial classifier to categorize scenes into four distinct emotion categories