

# Heekyung Kim

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## EDUCATION

**Northeastern University – Khoury College**, Boston, MA Jan 2021 – Present  
*Candidate for M.S in Computer Science – GPA: 3.78/ 4.0* *Expected Aug 2023*  
*Coursework:* Data Structures and Algorithms, Object Oriented Design, Discrete Structures, Graduate Algorithms, Mobile Application Development, (Currently Enrolled) Mixed Reality, Web Development  
*Activities:* NUVR club

**Yonsei University – Underwood International College**, Seoul, Korea Mar 2014 – Aug 2019  
*B.S in Technology Management, B.A in Business Administration*

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C, Bash, HTML/CSS, C#, SQL, R  
**Tools & Frameworks:** Git, PyUnit, JUnit, Android Studio, Firebase, Linux, Bootstrap, Unity, MySQL, NoSQL

## PROJECTS

**Spenzoo: Expense Tracking App** | Java, OOD, Android Studio, Firebase, Git Fall 2021  
*@ Northeastern University – Team Project*

- Designed and built an expense tracking Android application that helps users to cultivate budget and expense tracking habits by building their own customizable zoo as rewards using Object Oriented Design in Java
- Implemented asynchronous tasks with multi-threads to perform CRUD operations on Firebase Database
- Utilized motion sensor to implement interaction with users and their virtual zoo animals

**To Do List** | Java, OOD, MVC, JUnit, Git Summer 2021  
*@ Northeastern University – Team Project*

- Designed and implemented a CLI To Do List Program using Object Oriented Design, Iterator and Builder Design Patterns, and MVC structure in Java
- Wrote JUnit tests for each class to test each functionality

**Mastermind Game** | Python, PyUnit, OOD, MVC Spring 2021  
*@ Northeastern University*

- Designed and implemented Mastermind game using Object Oriented Design and MVC structure in Python
- Used Python's Turtle library to create the GUI
- Wrote PyUnit tests for each class to test each functionality

## WORK EXPERIENCE

**Doosan Corporation** – Seoul, Korea Jul 2019 – Nov 2019  
*Corporate Venture Capital Research Assistant*

- Researched startups and emerging technology from deal flows and screened them based upon company's investment profile
- Created a CLI program that converts PDF into desired data format in Python, reducing steps and errors caused by direct input to database
- Developed a multi-class text classification model using Python that classifies startups by industry fields

**Sanofi-Genzyme** – Seoul, Korea Dec 2018 – May 2019  
*Business Analyst Intern*

- Forecasted sales, volume, and number of patients of key brands for two business units using R time series forecasting
- Led bi-weekly R training sessions for non-technical team members and helped them learn R basics and forecasting modeling

**Atlas Labs (NLP Startup)** –Seoul, Korea Sep 2017 – Feb 2018  
*Data Analyst Intern*

- Cleansed text data for company's NLP projects (chatbot for travel agency and mobile retail app) by annotating intents and entities using Python (Pandas, regex, KoNLPy)
- Crawled voice and text data from the web for company's voice recognition project using Python (Scrapy, Selenium)
- Wrote bash scripts that organizes directories of voice data files essential for speech recognition algorithm training