

Sangik (Sang) Han

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EDUCATION

University of Pennsylvania (GPA: 3.8/4.0)
MS, Computer Science (MCIT).

Philadelphia, PA
Sep 2020 - May 2022 (Expected)

Yale University (GPA: 3.78/4.0)
BA, Economics

New Haven, CT
Aug 2013 - May 2016

RELEVANT COURSES

Previous Big Data Analytics | Intro to Computer Systems | Intro to Software Development (Java)

Current Operation System Design and Implementation | Data Structure & Software Design | Algorithms & Computation

PERSONAL PROJECTS

Restaurant Review Web App

Apr 2020 - Aug 2020

- Implemented Create, Read, Update, and Delete functions using Django and Bootstrap to take text and image information from the user and edit the information with basic website structure
- Used ORM (Object-relational mapping) linking files made in different languages such as Python, HTML, CSS

Career Mentoring Web App

Jan 2021 - Jan 2021

- Used React to create the client-side components of the web app for log-in, creation of new profiles, and search for profiles to allow students and professionals to upload and search for profiles for career mentoring
- Integrated Firebase as the back-end to allow email sign-in and log-in, as well as updating profiles in real time
- Used React Hook to re-render pages when the user status is updated with log-in and log-out

Fannie Mae Mortgage Loan Default Prediction

Nov 2020 - Dec 2020

- Using Pandas and Seaborn, conducted quality check, clean up, and exploratory data analysis on mortgage loan data from Fannie Mae during 2000 – 2020, with 54 variables and 3 million records totaling \$599+ billion in value
- Processed the raw data with one-hot encoding, data type conversion, derived variables in order to shape the data for analysis
- With Spark, ran Random Forest and Logistic Regression for the default prediction, achieving accuracy of ~80%

Shell Command Implementation

Feb 2021 - Feb 2021

- Replicated the shell command line interface functionality such as taking and parsing user command, displaying program implementation, re-prompting and exiting, and sharing the exit status of the program
- Implemented inter-process communication between child and parent processes to handle signal generated after forking
- Implemented redirection to allow users to read and write directly from and to a file, as well as pipeline to allow exchange of input and output between different processes

Catch Plagiarist (Document Similarity Comparison)

Feb 2021 - Feb 2021

- Interactive Java-based program to read a set of documents to find similar documents by comparing the number of matching n-grams, which are the n consecutive words in each document
- Created a document processor for document comparison to skip non-alphabetical characters or empty spaces

WORK EXPERIENCE

Line Corporation

Seongnam, Republic of Korea

AI & Contents Business Development Manager

Nov 2018 - Aug 2020

- Project management for CLOVA AI chatbot product with a local client in Taiwan, responsible for the spec and schedule planning along with management of stakeholders across organizations spanning from Engineering to Sales
- Go-To-Market for new product launches in Taiwan, including product selection, localization, sales planning, marketing budget management, and cross-functional communication with Engineering, Product, and Sales teams

McKinsey & Company

Seoul, Republic of Korea

Business Analyst

Aug 2016 - Oct 2018

- [Strategy & Operations] Worked for Korean conglomerate clients to find cost saving initiatives and prioritize action items based on their saving potentials; developed value-up strategy for clients with initiatives for revenue uplift
- [Private Equity] Worked for private equity firms to validate investment opportunities, supporting validation for revenue pipeline and run diagnostics for post-merger integration to identify revenue and cost optimization levers

Languages & Skills

Languages Python, Java, C, JavaScript, CSS, HTML

Skills React, Redux, Django, Pandas, SQL, Spark, Semantic-UI, Stata