

# KUN HWI KO

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## EDUCATION

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### University of Pennsylvania

Master of Computer and Information Technology (GPA: 3.95) May 2021

- Algorithms, Artificial Intelligence, Big Data Analytics, Data Structures, Systems

### New York University Stern School of Business

Bachelor of Science in Business / Master of Science in Accounting Sep 2016

- Financial Modeling, Math for Economics, Statistics Regression & Forecast

## TECHNICAL SKILLS

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### Programming

Python, Java, C/C++, Swift, Dart, JavaScript, HTML/CSS

### Analytics

SQL, MongoDB, R, Excel/VBA

### Frameworks

iOS, Flutter, Node/Express.js, React.js, Spring, Hibernate, Bootstrap

## EMPLOYMENT

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### Barclays

Jul 2020 – Present

Summer Developer

Whippany, NJ

- Modeled a Java web application that detects anomalies in financial transactions in the SQL database and visualizes alerts to end users
- Built a script in Java that queries a historical database and used Spring/Hibernate to inject the found data as dependencies for testing vulnerabilities in an anomaly detection model

### Republic of Korea Army

Jun 2017 – Mar 2019

Financial Specialist

Pocheon, ROK

- Performed risk analysis through financial data, statistics, and regulations, ensuring 28% more investments made by the Bank of Korea compared to the previous year
- Improved a financial model to expedite calculations for insurance, material, and compliance costs and was regionally selected by the Republic of Korea Army

### EH-English Education Research Center

Sep 2016 – Jun 2017

Lead Business Analyst

Seoul, ROK

- Designed a database of popular educational destinations based on time, location, and financials to develop different pricing strategies and improve client experience
- Constructed the company website to expand into online business

## PROJECTS

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### Swiftris (github.com/kunhwiko/Tetris)

Jun 2020 – Jul 2020

- Implemented an iOS application of Tetris using Swift

### Stock Bot (github.com/kunhwiko/Stock\_Bot)

May 2020 – Jun 2020

- Built a mobile application in Python and Flutter that parses the web for most gaining stocks for the day and displays hypothetical profits and significant changes via a user interface

### Sudoku Solver (github.com/kunhwiko/Sudoku)

May 2020

- Created a program and GUI in C++ and CSS that visualizes a randomized sudoku board and the solution using a backtracking algorithm

### Remote CPU Tracker (github.com/kunhwiko/CPU\_Tracker)

Apr 2020 – May 2020

- Designed a system in C that displays CPU statistics of the host computer remotely to the web

### Search Engine (github.com/kunhwiko/Search\_Engine)

Mar 2020 – Apr 2020

- Built a news aggregator in Java that parses the web and returns most relevant links to a word search