KUN HWI KO

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EDUCATION

University of Pennsylvania
Master of Computer and Information Technology (GPA: 3.93)   May 2021
- Teaching Assistant for CIT 596 : Algorithms and Computation

New York University Stern School of Business   Sep 2016
Bachelor of Science in Business / Master of Science in Accounting

TECHNICAL SKILLS

Languages	Python, Java, C/C++, Go, JavaScript, HTML5/CSS3, Swift
Frameworks	React.js, Node.js, Express.js, Spring, Flutter, Spark
Databases	MySQL, PostgreSQL, Cassandra, MongoDB, Neo4j
Software Tools	AWS (EC2, S3, RDS), Docker, Kubernetes, Git, Jira

EMPLOYMENT

C3.ai   Jul 2021 – Current
Software Engineer   Redwood City, CA
- To be updated: Currently working for the cloud infrastructure and security team

Barclays   Jul 2020 – Aug 2020
Summer Developer   Whippany, NJ
- Collaboratively developed a Java web application that detects violations in mark-to-model financial transactions and sends alerts to the compliance team
- Tested for vulnerabilities in an anomaly detection model by creating test cases in the SQL database and reviewed code quality using SonarQube before pushing to production

PROJECTS

Pennify | github.com/kunhwiko/pennify   Apr 2021 – May 2021
- Built a Python music streaming service that uses a custom designed protocol to minimize stuttering
- Hosted server on AWS EC2 to design a scalable service that concurrently handles 100+ clients

Crimebnb | github.com/kunhwiko/crimebnb   Mar 2021 – May 2021
- Designed a React app that allows users to view crime incidents near Airbnb listings
- Optimized SQL statements to efficiently query for 500k+ rows of crime data from AWS RDS
- Used Docker to containerize the client/server code and simplify deployment

Newvies | github.com/kunhwiko/newvies   Nov 2020 – Dec 2020
- Built a Python app that recommends new movies based on similar users using a K-Means Clustering model to interpret relationships between genres, keywords, and ratings

Swiftris | github.com/kunhwiko/swiftris   Jul 2020
- Implemented an iOS application of Tetris using Swift

Stock Bot | github.com/kunhwiko/stock-bot   May 2020 – Jun 2020
- Built a Python app that parses financial websites and calls APIs for most gaining stocks
- Used Flutter to display financial information and significant price changes of stocks in real time

Sudoku Solver | github.com/kunhwiko/sudoku   May 2020
- Created a program and GUI in C++ that visualizes solutions to Sudoku puzzles using backtracking

News Search | github.com/kunhwiko/news-search   Mar 2020 – Apr 2020
- Designed a Java search engine for news articles with autocompletion features using trie structures
- Optimized web crawling on HTML/RSS feeds using TF-IDF metrics to return most relevant links