

# JINHYUK KIM

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## EDUCATION

**Columbia University** | New York City, NY

Aug 2021 - May 2023

- Bachelor of Science in Computer Science – Intelligent Systems track
- Coursework: Artificial Intelligence, Spoken Language Processing, Computer Architecture, Advanced Programming in C

**Claremont McKenna College** | Claremont, CA

Aug 2018 - May 2021

- Bachelor of Arts in Economics, GPA: 3.63 / 4.0
- Coursework: Data Structures (Harvey Mudd), Data Mining, Statistical Modelling, Linear Algebra, Discrete Mathematics

## WORK EXPERIENCE

**Cisco Systems** – San Jose, California

Jun 2021 – Aug 2021

*Software Engineer – Webex Incident Command Team*

- Remodeled command processing flow of Errbot, a chatbot for the IC team, by leveraging Fuzzy matching and Regex
- Built a website in Javascript and Pug to provide better integration with ServiceNow, streamlined process of recording incident data, and automated testing software using Selenium and its Standalone server
- Shadowed shifts as incident commander and appointed as primary respondent for bugs regarding Errbot

**Acertas Analytics** – Claremont, California

Jan 2021 – Jun 2021

*Software Engineer*

- Visualized data and prediction performance via confusion matrices, graphs, and plots with Pandas, Seaborn, and Matplotlib
- Trained time series forecasting LightGBM regression models with parameter hypertuning and cross validation
- Reorganized and cleaned big datasets (1,000,000+ entries) in PostgreSQL and MongoDB in Python
- Feature engineered 3 new variables using NetworkX and actors that scored top 10 in importance in random forests model

**Beach Point Capital Management** – Santa Monica, California

Jan 2021 – May 2021

*Software Engineer*

- Collected and prepared data on 3,000+ ongoing mortgage loans over 2 years to create 60,000+ entries
- Feature engineered 50+ new variables relevant to predicting loan status over a period of 3, 6, 9 months
- Programmed sustainable Machine Learning model for predicting probability of loans going bankrupt given loan attributes

**Wonderful Platform** – Seoul, Korea

Jun 2020 – Aug 2020

*Software Engineer*

- Designed an iOS application to allow parents to upload videos of infants for behavioral analysis by certified consultants
- Coded messaging for app to ask questions directly to consultants, with already answered questions automatically responded to by an AI chatbot with natural language processing and machine learning
- Conducted AWS and REST API calls for authentication and fetching relevant data for application

## TECHNICAL PROJECTS

**CollegeBook** - <https://github.com/avikhemani/CollegeBook>

2019-2020

*Swift, Node.js*

- Developed iOS app for trading textbooks
- Implemented Cloud Firestore, static storage, real time chat, authentication, notifications, and cloud functions
- Incorporated ISBN scanner, Algolia for search, and mark as sold button
- Managed backend in Node.js, loaded Firebase Functions and Cloud Messaging for notifications

**Systematic Trading Software** – [https://github.com/jinkim22/Algorithmic\\_trading](https://github.com/jinkim22/Algorithmic_trading)

2021

*Python*

- Designed an algorithmic trading system based off the framework written in the book *Systematic Trading* by Robert Carver
- Integrated Robinhood's API for trading and pulls live data from TD Ameritrade to make decisions by minute
- Diversified portfolio and analyzed risk by analyzing Sharpe ratio, return skewness, standard deviation, and forecasts

## SKILLS & INTERESTS

**Technical Skills/Programming:** Python, Java, C++, Swift, Latex, Git, Node.js, React, Javascript, Data Structures, Machine Learning, TensorFlow, PyTorch, Sci-kit-learn, Pandas, MongoDB, PostgreSQL, MySQL, CoffeeScript, Errbot, Mock-Testing, Pug, Typescript, Bash  
**Language:** Korean, English

**Leadership:** Men's Golf Team at Claremont McKenna College, Mood Swing Acapella

**Interests:** Golf, Basketball, Soccer, Traveling