

# Joonho (Matthew) Moon

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## Education

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**University of California, Berkeley**

**Expected Graduation: May 2021**

*B.A Computer Science, College of Letters and Science*

○ **Relevant Coursework:**

Operation Systems, Algorithms, Computer Security, Artificial Intelligence, Data Science, Machine Structures, Data Structures, Discrete Mathematics, Linear Algebra, Multivariable Calculus

## Experience

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**CME Group**

**New York, NY**

*Software Engineer Intern*

*May 2020 - Present*

- Designed and built an automated patching solution, which verifies and upgrades Java for apps on servers in Python
- Automated end-to-end process of the upgrade with Jira API, Splunk API, Greentea API, and multi-threading
- Implemented user communication via email in Python and HTML and created an email content generator

**Upswot**

**Berkeley, CA**

*Data Science Intern*

*September 2019 - December 2019*

- Collaborated with a Berkeley Skydeck backed start-up to extract user data from websites in Python
- Aggregated users' financial data with proper labeling, and ran regression analysis in Python

**Republic of Korea Army**

**Pocheon, South Korea**

*Squad Leader, Sergeant*

*August 2017 - May 2019*

- Managed logistics items, and commanded a squadron consisted of 10 soldiers during 15+ military operations
- Arranged and planned bimonthly meeting with the US Army(70<sup>th</sup> BSB) and prepared necessary documents
- Founded a station-wide "English as a Second Language" program, accelerating communication with the US Army

## Projects

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**Trading Bot**

*July 2020*

- Implemented the algorithm for an algorithm trading bot, heavily based on gamma trading strategy in Java
- Placed 2<sup>nd</sup> in the CME Group's internal hackathon, generating more closed profit than most of the other teams

**Mooncoin**

*May 2020*

- Built a cryptocurrency based on blockchain in Javascript/Node, and deployed to AWS Elastic Beanstalk
- Implemented blockchain features such as proof-of-work, digital signature, and real-time peer-to-peer server
- Created a front-end web application with React.js to interact with the cryptocurrency's backend implementation

**BearMaps**

*August 2019*

- Implemented the backend for a map application focused on Berkeley with zoom and drag functionality, in Java
- Built optimal routing finder between locations and implemented an auto-complete suggestion for search keywords

**DaniBio**

*May 2017*

- Implemented back-end for a website that assists biology graduate students with their labs, with Ruby on Rails
- Built the front-end of the website with heavy emphasis on user experience, for better lab efficiency

## Skills & Interests

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- **Proficient:** Python, Java, C
- **Experienced:** C++, JavaScript, SQL, Ruby, HTML, LaTeX
- **Languages:** English(Native), Korean (Native), Chinese (Conversational)
- **Interests:** Weight Training, Boxing, Soccer, Rugby, Stock Investing, Traveling (35+ countries)