MATTHEW (JOONHO) MOON

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EDUCATION

University of California, Berkeley   **Expected Graduation:** May 2021
College of Letters and Science | B.A. Computer Science and B.A. Economics   **GPA:** 3.4 / 4.0| **Major GPA**: 3.6 / 4.0
Relevant Coursework: Efficient Algorithms and Intractable Problems, Machine Structures, Data Structures, Structure and Interpretation of Computer Programs, Discrete Mathematics and Probability Theory, Linear Algebra and Differential Equations, Multivariable Calculus

PROJECTS

BearMaps | Java   **August 2019**
- Implemented the backend for a map application, which focuses on the campus town of Berkeley, with zoom and drag functionality
- Calculated and displayed optimal routing between locations, by utilizing A* search algorithm
- Built and integrated an autocomplete feature to suggest locations from inputted search terms, using trie data structure

GitLet| Java   **July 2019**
- Created a version-control system using serializable objects that closely mimics Git from scratch
- Designed internal file structures and other functionalities such as backup commits, merge, branches and remote usage

Enigma | Java   **June 2019**
- Implemented an encryption/decryption machine, with heavy usage of object-oriented programming and inheritance
- Emphasized on modular code and polymorphism, focusing on reusability of the code and proper logic implementation

DaniBio | Ruby on Rails, HTML   **May 2017**
- Implemented a website that assists biology graduate students with their labs, such as DNA translation to RNA sequences
- Created and designed the front end of the website with heavy emphasis on user experience, for better lab efficiency

Scheme Interpreter | Python   **April 2017**
- Developed an interpreter for a subset of Scheme programming language using Python, parsing string inputs for various cases
- Implemented based on read-eval-print loop, utilizing tokenizing, parsing, evaluating commands and parsing

EXPERIENCE

Republic of Korea Army | 5th Corps Logistics Support Brigade 15th Supply Battalion   **August 2017 – May 2019**
Logistics Specialist, Squad Leader, Sergeant
- Analyzed the deployment flow of class II items, increased storage efficiency by 15%, and commanded a squadron of 10+ soldiers during five axis-wide trainings, boosting time efficiency of class II and class IV items deployment by 20+%
- Protocoled bimonthly meeting between battalion commanders of the 70th BSB Commander from the US Army and the 15th BN Commander, while preparing necessary operations-related slides and other documents and scripts necessary for the meetings
- Commanded a squadron of 10+ soldiers during multiple trainings such as boosting time efficiency of class II items deployment by 20%
- Founded a station-wide "Learning English in Pocheon" ESL program for soldiers, to accelerate communication with the US Army

X-Lab Inc. | Berkeley, California   **August 2016 – December 2016**
Business Operation Intern
- Marketed Spendwallet, a payment solution device that works with a combination of a patented magnetic flux emulation technology and near field connection technology, through various social media platforms, raising $170,000+ from crowd-funding websites
- Assisted the head of Business Development in negotiation of a partnership deal, resulting in enhancement of customer experience
- Developed and sourced a list of 30+ Venture Capital firms in Northern California through active online research

Seoul Credit Rating & Information | Seoul, South Korea   **June 2016 – July 2016**
Fintech Intern
- Analyzed personal financial information, such as individual credit information, and made reports for regulatory institutions
- Led a project on the company's establishment of a new cyber security branch by communicating with a potential benchmark company
- Conducted research on growing fin-tech companies to assist in investment pitches to board members

LEADERSHIP & ACTIVITIES

Korean American Student Association (KASA) | Berkeley, California   **January 2016 – May 2017**
Fundraising Chair, Community Service Chair, Family Head
- Created and managed fundraising events to fund for organization operations, increasing raised funds by 15% than previous years
- Led community service opportunities for 20+ KASA members and officers and raised $700+ for charity funds
- Marketed Korean American Student Association to incoming Freshmen and increased memberships by 50+

SKILLS & INTERESTS

Technical: Python, Java, C, SQL, Ruby on Rails, HTML, Adobe Photoshop, Microsoft Office Suite
Languages: Korean (Native), Chinese (Conversational)
Interests: Weight Training, Soccer, Rugby, Books, Stock Investing, Traveling (35+ countries)