EUN PYO (JASON) LEE

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EDUCATION

UNIVERSITY OF MICHIGAN   **September 2014 – December 2020**
B.S. in Computer Science   GPA: 3.51 (Scale of 4.00)
- University Honors - April, 2015

EXPERIENCE

LINGCO LANGUAGE LABS   **May 2020 – July 2020**
Language Teaching Platform for Public Education   *Lansing, Michigan*
Full-Stack Software Engineering Intern
- Built Lingco's payment system using the Stripe API. Leveraged webhooks to follow the 3-D secure protocol and prevent duplicate charges.
- Refactored portions of the source code by removing redundant calls to the Context API and Redux and creating a centralized place to hold the states. Broke down a table-like component into a smaller column-like module to provide more flexibility to the parent component.
- Implemented a feature that allows users to search through the platform using filters. Created a custom video controller that stays aligned with Lingco's UI. Enhanced the interface of the product by building a drawable sidebar and changing the platform to use a list/grid view mode

EDENCHAIN HEADQUARTER   **July 2018 – December 2019**
International Permissioned Blockchain Platform Company   *Seoul, South Korea*
Business Development Intern and Edenchain Ambassador
- Analyzed the potential effect of local cryptocurrency in the local economy and what differentiates "Chung-Nam Coin" to other domestic virtual and crypto local currencies such as "Seoul Coin"
- Conducted a feasible blockchain use-case research in the "Si-Heung Surfing Park Project" (surfing park under construction, expected to be a training center for Tokyo Olympic surfers)

SEOUL SONGPA POLICE STATION   **September 2016 – June 2018**
Provincial Police Station in Seoul   *Seoul, South Korea*
Sergeant, Chief Auxiliary Policeman, Company Radio Operator, Commander Assistant
- Received the "Major General's Best Trainee" award as a devoted trainee in Nonsan Korea Army Training Center
- Decorated by the Brigadier General of Police for the leadership and the performance of duties during President Trump's visit, the Inter-Korean summit 2018, and the PyeongChang Winter Olympics events

PROJECTS

Thread Library Project   **January 2020 – February 2020**
- Built a high-level synchronization tool imitating the thread library in a multi-processor environment
- Improved 20% in memory usage through a thread garbage collector and 10% in CPU time consumption on average through a minimization of Linux's set and swapcontext call during a thread state change
- By applying RAII, efficiently managed memory with higher maintainability

Search Engine Project   **November 2019 – December 2019**
- Built a web search engine that ranks search results based on "Term Frequency – Inverse Document Frequency"
- Leveraged Flask and React.js to write backend and frontend for the website
- Designed four-stage MapReduce pipeline to efficiently calculate inverted index by saving memory from storing over 30MB input into a data structure