

# Yiwen Moo

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## EDUCATION

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### University of Pennsylvania

Master of Computer and Information Technology

Philadelphia, PA

August 2019 – May 2021

- Coursework: Distributed Systems, Algorithms & Computation, Database and Information System, Big Data Analytics
- GPA: 3.88

### University of California, Los Angeles

Bachelor of Arts, *cum laude*, Business Economics

Los Angeles, CA

September 2015 – June 2017

## SKILLS

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Programming Languages: Java, C++, Python, UNIX (basic commands)

Databases: MySQL, MongoDB

Web Development: Node.js, Express.js, React, Javascript

## PROJECTS

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PennCloud (version-controlled with Git)

November 2020 – December 2020

- Created fault tolerant cloud platform with key value storage server, modelled after Google's BigTable with primary based replication capacities and consistency
- Developed RESTful web service by implementing multi-threaded front-end server that handles HTTP requests & responses
- Created Google Drive storage service clone with upload & download functionality for various file formats through data serialization using ProtoBuf
- Enhanced server efficiency during heavy traffic by developing load balancer to distribute workload

Campsite Listing System (<https://campbay2020.herokuapp.com/>)

May 2020 – August 2020

- Built full stack web application that allows users to browse campgrounds, leave comments and post new listings
- Integrated Mapbox API for campsite locations display and Stripe API to receive payments
- Enhanced user experience (UI/UX design) by developing responsive webpage through utilization of AJAX technologies (HTML, CSS, Javascript) and Bootstrap framework
- Implemented user authorization for different user groups and handled server-side user authentication
- Built non-relational database on MongoDB Atlas to store campsite and user data, enabling CRUD operations

BookShelf Application

March 2020 – May 2020

- Created web application that displays book rankings, allows book search, and provides book recommendations according to user preference
- Utilized Node.js and Express.js for back-end and React for front-end development
- Performed multiple joins between datasets and utilized relational database (MySQL) to store user data and favorites history
- Optimized complex query performance by 70% using indexes and temporary tables

## WORK EXPERIENCE

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### Wrapables

Fremont, CA

Operations Analyst

August 2017 – November 2017

- Extracted, compiled, and restructured raw data from existing Amazon data entries into formatted inventory list
- Successfully reformatted and updated 13,000 SKU numbers by filtering inventory status, sorting by SKU pattern and standardizing product descriptions
- Improved outbound performance by 50% by automating and simplifying shipping process for Amazon store through product weight-to-shipping methods mapping
- Reduced product listings maintenance time by 50% by executing Amazon store integration using Inkfrog (listing software) with proper designed testing process