

Mark Lu

Full Stack Developer



Projects

2025

Online Sports Betting Platform

React, AWS, Postgres, MongoDB, gRPC, GraphQL, Playwright

- Developed a real-time odds scraping system via **Playwright**, retrieving live market data and game results, reducing costs by **\$1,800/month** compared to professional sportsbook data providers.
- Offers over **130+** dynamic betting markets for every major sporting event, with real time data pulled from an API on **GraphQL**, hosted on a **AWS EC2** server
- Engineered a database solution with **Postgres** and **Prisma** to store user account balances and transaction histories
- Integrated add-to-cart-function for betting selections using **localStorage** and **APIs** to maintain cart across page reloads
- Deployed at <https://cachecasino.vercel.app/>

2024

Data Scraping Filtering and Analysis Application

OpenAI API ,Python, Beautiful Soup, HTML, CSS, Chart.js, Requests

- Engineered a scalable scraping pipeline to retrieve, analyze up to **82** game logs, and filter over **20+** statistical categories through a live external server for **predictive modeling**.
- Designed an **NLP**-based filtering system for NBA statistics, allowing users to input natural language queries for customized data retrieval and analysis with **OpenAI API**
- Developed a free alternative to competitor platforms that charge **\$20/month** for the same functionality, increasing accessibility and user adoption.
- Deployed at hoopgle.onrender.com/

2024

Food-Centric Social Media Platform

Next.js, Tailwind CSS, Prisma, UploadThing, Clerk Auth

- Designed a **full stack** social media platform focused on exploring food content and helping people decide what to eat
- Implemented a **GraphQL-optimized, Prisma-backed** database to efficiently manage user data, posts, and interactions, integrating seamless file uploads via **UploadThing**
- Styled the platform with **Tailwind CSS** and **Shadcn**, ensuring a visually appealing and mobile responsive design.
- Optimized API integration and routing using **Next.js** server components, reducing data fetching latency by **40%** through caching and revalidation strategies.
- Integrated **Clerk authentication** to enable secure, seamless user sign-up, login through **Google, Tik Tok**, and session management, enhancing account **security** and **user experience**.
- Deployed at munchhhh.vercel.app/



Personal Info

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Education

2020-2024

University of Wilfrid Laurier

Bachelor of Science Computer Science



Skills

Languages

Python

JavaScript

HTML & CSS

java

C

C++

Frameworks

TypeScript

React/Redux

Next JS

Node JS

Apollo

Angular

Languages

PostgreSQL

GraphQL

Memcached

MongoDB

gRPC

Kubernetes

Terraform

AWS

Heroku

Git