

GARY MAK

Los Angeles, CA · (323) 334-6446 · xgmak94@gmail.com · github.com/xgmak94

EDUCATION

University of California, Santa Barbara

Bachelor of Science, Computer Science

PROJECTS

Lucky Larry's - PostgreSQL | Express | React | Node

Full-stack mobile casino web application

2022

- Collaborated on an Agile team to scope out and prioritize features according to customer demands.
- Safely stored user credentials in PostgreSQL using a MD5 hash to authenticate user accounts.
- Allowed users to simulate and visualize the outcomes of several popular single player games.
- Implemented sockets to allow users to interact with each other in a global chatroom.
- Participated in code reviews, advising against changes that would hinder the user experience.

Discord Music Bot - Javascript | Node

2022

Fully functional discord bot for users to play music

- Designed, implemented, and deployed automated systems utilizing web APIs to generate audio.
- Utilized Discord API to provide a fully functional music player for all users to interact with.
- Integrated YouTube searching to extend functionality and improve user experience.
- Extended functionality by allowing users to queue, skip, and pause tracks.
- Improved response time and memory usage through caching all requests by users.

Atelier - PostgreSQL | Express | Node

2022

Back-end application built to service a retail web page

- Designed a RESTful API using provided data to an ecommerce web portal.
- Deployed five EC2 servers with a Load Balancer to improve throughput 300%, 500 to 1500 RPS.
- Identified possible bottlenecks through stress testing with K6, Loader.io, and New Relic.
- Reduced latency from 2s to 60ms by identifying and refactoring expensive database queries.

Pokemon Wiki - MongoDB | Express | React | NextJS | Node

2022

Full stack encyclopedia application for Pokemon

- Improved server-side-rendering and page load times through using Next.js framework.
- Reduced latency by 200% through migrating Pokemon data to MongoDB.
- Implemented search and filter features to allow users to search through the database of Pokemon.
- Allowed users to create and modify teams stored in MongoDB.

EXPERIENCE

Hopeful Enterprise Inc.

Office Clerk

2019 - 2021

- Improved the efficiency of retrieving data, maintaining inventory, and compiling reports.
- Fulfilled customer orders quickly and efficiently.
- Scheduled client meetings and managed the daily calendar.
- Established communication and provided thorough documentation for all clients.
- Setup, configured and provided support setting up various hardware and software.

KEY SKILLS

Front-end: React | NextJS | HTML | CSS | Bootstrap | TailwindCSS | jQuery

Back-end: Node.js | Express.js | MySQL | PostgreSQL | MongoDB

Testing/Deployment: Jest | Mocha | AWS (EC2) | Heroku | Loader.io | New Relic

Development tools: Git | Webpack | NGINX | Babel | Google Analytics | Shopify

Languages: JavaScript | Java | Python | C++ | C