GARY MAK

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TECHNICAL SKILLS

Front-end: React.js | Next.js | 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
Deployment tools: Git | Webpack | NGINX | Babel | Google Analytics
Languages: JavaScript | Java | Python | C++ | C

PROJECTS

Discord Music Bot - Javascript | Node | Github   **2022**
Fully functional discord bot for users to play music.
- Designed, implemented, and deployed interactive 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.
- Included functionality allowing users to queue, skip, and pause currently playing tracks.
- Improved response time and memory usage through caching recent user requests.
- Extended general functionality to retrieve JSON data about various Pokemon and Yugioh cards.

Movie Board - PostgreSQL | Express | React | Material | Github   **2022**
Full-stack application to keep track of movies.
- Stored and authenticated user profiles safely through GitHub and Google auths.
- Allowed users to keep track of their favorite movies and current statuses.
- Implemented drag and drop interfaces to transfer data between the various lists.
- Retrieved information from a movie API and stored into PostgreSQL database.

Lucky Larry's - PostgreSQL | Express | React | Node | Github   **2022**
Full-stack mobile casino web application.
- Allowed users to simulate and visualize the outcomes of several popular single player games.
- Safely stored user credentials in PostgreSQL using a MD5 hash to authenticate user accounts.
- Implemented sockets to allow users to interact with each other in a global chatroom.
- Participated in code reviews and advised against changes that would hinder the user experience.
- Collaborated on an Agile team to scope out and prioritize features according to customer demands.

Atelier - PostgreSQL | Express | Node | Github   **2022**
Back-end application built to service a retail web portal.
- Designed a RESTful API to provide clothing data to an ecommerce web portal.
- Deployed five EC2 servers with a Load Balancer to improve throughput 300%, from 500 to 1500 RPS.
- Identified possible bottlenecks through stress testing servers with K6, Loader.io, and New Relic.
- Reduced latency from 2s to 60ms by identifying and refactoring expensive database queries.

EXPERIENCE

Hopeful Enterprise Inc. | *Office IT Assistant*   **2019 - 2021**
- Improved the efficiency of retrieving and invoicing purchase/sale orders.
- Collaborated with product managers to perform analysis to identify high performing products.
- Established communication and provided thorough documentation for all clients.
- Setup, configured and provided support setting up various hardware and software.

EDUCATION

Hack Reactor | Software Engineering Immersive, Certificate of Completion
University of California, Santa Barbara | Bachelor of Science, Computer Science