

# 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

## SOFTWARE ENGINEERING PROJECTS

**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.

**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 data about various Pokemon and Yugioh cards.

**Atelier** - PostgreSQL | Express | Node | [Github](#)

2022

*Back-end application built to service a retail web portal.*

- Designed a RESTful API to provide 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 Clerk

2019 - 2021

- Improved the efficiency of retrieving data, maintaining inventory, and compiling reports.
- 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.

## EDUCATION

**University of California, Santa Barbara** | Bachelor of Science, Computer Science