

GARY MAK

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Education

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

Key Skills

Front-end: React | 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 | Shopify

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

Projects

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 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.

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

2022

Back-end application built to service a retail web portal

- 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 servers with K6, Loader.io, and New Relic.
- Reduced latency from 2s to 0.6s 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.
- 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.