# MICHAEL YOUSSEF

Melbourne, VIC 3754 (Open to Remote) | (+61) 433 880 403 | michaelyoussef396@gmail.com www.linkedin.com/in/michael-youssef-93625327a | github.com/michaelyoussef396

### **TECHNICAL SKILLS**

Front End | React, Javascript, NodeJS, CSS, HTML

Back End | Python

Testing/Deployment |

Developer Tools | Git, npm, Babel

#### **EXPERIENCE**

# **Back-End Software Engineer | Name of Application**

Jan 2022 - Present

- Optimized existing monolithic back-end of an e-commerce website to handle 360,000 requests per minute with low latency (<20 ms) and error rate (<0.1%) by horizontally scaling microservice to 5 AWS EC2 instances and using a least connections load balancing method with NGINX to increase fault tolerance
- Leveraged K6 and Loader.io to identify performance bottlenecks, then implemented caching to lower frequency of database retrieval to allow for a throughput increase of **733%**
- Reduced query times to database from 6,000 ms to 12 ms by using aggregator functions and indexing foreign keys
- Mentored peer engineers on front-end development and best practices

# Front-End Engineer, UI Lead | Name of Application

Jan 2021 - Jan 2022

Remote learning management system web application

JavaScript | Next.js | MUI | Node.js | Firebase | Jest

- Facilitated discussions with front-end team to assess client expectations and constructed Figma wireframe
- · Directed modeling of data and API endpoints to allow for seamless frontend integration to backend
- Implemented server-side rendering with Next.js to improve page load time, achieving Lighthouse SEO score of 100

## Front-End Software Engineer | Name of Application

2020-2021

Single page e-commerce website

JavaScript | React | Express | EC2 | Jest

- Architected a front-end service of a ratings and reviews system to allow users to post reviews, view average ratings, search by keyword, and sort by helpfulness, relevance, date, and/or star ratings for a specific product
- Improved web page quality by enabling text compression through Brotli and React Lazy Load, increasing Google Lighthouse performance by 132%
- Tracked user interactions throughout the application with React higher-order components to reuse component logic

### **PROJECTS**

# Front-End Engineer, UI Lead | Name of Application GitHub | Demo

Jan 2021 - Jan 2022

Remote learning management system web application

JavaScript | Next.js | MUI | Node.js | Firebase | Jest

- · Facilitated discussions with front-end team to assess client expectations and constructed Figma wireframe
- Directed modeling of data and API endpoints to allow for seamless frontend integration to backend
- Implemented server-side rendering with Next.js to improve page load time, achieving Lighthouse SEO score of 100

#### **EDUCATION**

University of XXX - Master of Science, Computer Science, GPA (only >= 3.7)

2023

**University of XXX** - Bachelors of Science, Computer Science, GPA (only >= 3.7)

2022