

# JOECO FONG

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<https://joeco.me>

## SKILLS AND QUALIFICATIONS

### FRAMEWORKS/LIBRARIES

- Node, JWT.io, Express.js, Socket.io, Phaser.js, Java Persistence API

### LANGUAGES

- C++, Java, JavaScript, C, MySQL, NoSQL, Mongoose.

### FRONTEND FRAMEWORKS

- React, Material UI, Bootstrap, PrimeFaces, JavaServer Faces

### DEVOPS/SYSADMIN

- Amazon EC2, Dockers, PM2, NGINX, Heroku, Firebase, WildFly/JBoss, Maven

## PROJECTS

### JOECO.ME

<https://www.joeco.me/>

December – January 2020

- Deployed using an AWS EC2 Linux instance that runs a NGINX reverse proxy to a PM2 managed express server.
- Implemented Nodemailer to allow for clients to securely deliver emails through the application.
- Developed using React with Material UI components.
- Configured SSL Certification using NGINX with Let's Encrypt/CertBot to enable HTTPS.

### TEMPIFY

<https://tempify-v2.herokuapp.com/>

September – December 2019

- Implemented authentication with signed JWT tokens to secure API requests.
- Improved load speeds by +200% by refactoring codebase from Laravel 5.5 to Node/React.
- Deployed application through Heroku, and migrated database schema from Remote MySQL to Heroku's MySQL ClearDB add-on.

### OPERATION REGEN

<https://operation-regen.herokuapp.com/>

April – May 2019

- Developed a solution to implement the 2D game engine Phaser.js to be wrapped around React as an embedded WebGL canvas.
- Created an open source bare-bones React-Phaser-Node-Express boilerplate to speed up development for future developers.
- Established the development environment with an MVC design pattern by bootstrapping Create-React-App to an express server serving as a backend RESTful service.

### BOOKAPP

<https://appetieze.io/app/pwv2aknnphf9y6mep9xkzx8azw>

September – December 2019

- Developed a flexible database solution to limit 15 users per available activity for any given day of the week for 6 of the most popular recreation centers in Surrey.
- Developed the mobile application in Android Studios using Java, XML, Firebase Real-Time DB.
- Significantly improved read performance by implementing a denormalized database schema using NoSQL.

## EDUCATION

**DIPLOMA – COMPUTER SYSTEM TECHNOLOGY** BCIT, BURNABY

2018 – Present

**DEGREE – HEALTH SCIENCES** SFU, BURNABY

2010 – 2016