

# Karthikan Murugathas

## Profile

A recent graduate from 'University Of Surrey', with a bachelors in 'Computing & Information Technology.' Currently working for an organisation called 'English Language Testing' to develop my soft skills with the addition of improving my understanding of SQL and the development of responsive websites. I consider myself to be technology agnostic, so I enjoy learning new technologies while also improving my knowledge of the existing technology I know. Besides my love for technology, I enjoy listening to music, reading books, and enjoy being in the gym.

## Employment History

### IT Support and Services at Password | English Language Testing, Brentford

JULY 2020 – PRESENT

- Supporting ELT's global clients by remote sessions, phone, and email
- Using ELT's and other software to input new Maths and English questions, and building these into tests
- Writing SQL queries
- Updating and maintaining ELT's website:  
<https://www.englishlanguagetesting.co.uk/>
- Providing general ELT office IT support
- Obtain data from Google Analytics such as website traffic and then sent it to the Marketing Manager

## Personal Projects

### Real-time Weather Website

JANUARY 2021 – FEBRUARY 2021

- Simple weather application created with vanilla JavaScript, HTML & CSS
- Use fetch API and geolocation API to retrieve the latest weather based on the user's location.
- Display icons related to the current weather
- Allow the user to choose how they would like the temperature to be displayed, whether that's in Fahrenheit or Celsius

### StudyBuddy

DECEMBER 2019 – FEBRUARY 2020

- This was a group project consisting of 4 people, in which we built a Java Spring BOOT application
- Responsible for documentation and interacting with the individuals in charge of front-end and back-end to gather information.
- Helped set-up back-end database, MongoDB
- Used Bootstrap to ensure the web application was responsive on Mobile and Desktop.
- Created mock-up designs using Adobe XD and used Draw.io to sketch System Architectures

### Test Platform (PERN Stack)

JUNE 2020 – FEBRUARY 2021

This idea came to me while working for my current organization, which had a massive issue with how slow and unresponsive the current platform they were using was.

- Used PERN Stack (PostgreSQL, Express.js, React.js, and Node.js)
- PostgreSQL used for back-end database to store, update, retrieve and delete data.
- Express.js and Node.js used to provide a lightweight server for my application, with the addition of using React.js for the front-end to provide an optimized single-page application.

## Details

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## Links

[Github](#)  
[FreeCodeCamp](#)  
[HackerRank](#)

## Skills

HTML/CSS/JavaScript

MongoDB

Python

Node.js

MySQL

React.js

Java

Flutter SDK

PostgreSQL

Firebase Cloud Firestore

Express.js

## Hobbies

Chess  
Boxing  
Reading  
Problem-Solving  
Music

## Languages

German

Tamil

English

- MaterialUI library to enhance the responsiveness of react components on different sized devices
- Build a Restful API Architecture to perform CRUD functionalities
- Used JWTAuth to ensure interaction between client and server was secure and not tampered with. In addition, used JSON web token from the jwtauth library to allow a user to be logged in for a period of time before being automatically logged out and being able to use private routing such that only authorized and authenticated users are able to see a specific page
- CI/CD using Heroku CI

## Cross-platform Social Media Application

SEPTEMBER 2019 – MAY 2020

A cross-platform social media application developed using the Flutter SDK. This application was intended to be used by 'University Of Surrey' students only.

- Implementation of maps and markers (the marker showing location of the various events running in 'University Of Surrey')
- Firebase (Cloud fire-store) to store, retrieve and secure the data
- Cross-platform deployment (Web, Android, and iOS)
- Authentication via surrey email address

## Education

### Computing and Information Technology Bsc (Hons), University Of Surrey, Guildford

SEPTEMBER 2017 – JULY 2020

#### Relevant Modules:

- Programming Fundamentals (65%)
- Artificial Intelligence (65%)
- Software Engineering (65%)
- Foundations Of Computing II (65%)
- Deep Learning and AI (71%)
- Entrepreneurship and Innovation: A business model approach (67%)
- Marketing Principles (67%)
- Dissertation (63%)

Overall 2.2 (56%)

### A-levels & BTECS, Rosedale College, London

SEPTEMBER 2014 – JULY 2017

- Pearson Edexcel AS and A level Maths: B
- Pearson BTEC Nationals Business Diploma: Distinction\* Distinction\*
- Pearson BTEC Nationals Subsidiary IT Diploma: Distinction\*

### GCSEs, Rosedale College, London

SEPTEMBER 2012 – JULY 2014

- 5 GCSEs, grade A-C, including Maths and English.

## Extra-curricular activities

### Media Project , London

SEPTEMBER 2013 – JUNE 2013

The creation of a video with a group of individuals, illustrating the day-to-day struggles of a high school student. Upon successful completion of this project, my group was invited to 'Buckingham Palace' and was given an award for brilliant work.

### Boxing Society, University Of Surrey Boxing Society, Guildford

JUNE 2017 – NOVEMBER 2020

Participated in my University boxing society, which included supporting freshers such as finding venues on where the event will run.

## References

References available upon request