

# Alex Usher ATCL

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## EDUCATION

### BENG COMPUTING

IMPERIAL COLLEGE LONDON  
Started September 2019  
London, United Kingdom

### ATCL PERFORMANCE DIPLOMA

TRINITY COLLEGE LONDON  
July 2017  
London, United Kingdom  
Diploma for music performance  
(clarinet)

## LINKS

Github:// [alex-usher](#)  
LinkedIn:// [alex-usher](#)  
github.io:// [alex-usher.github.io](#)

## SKILLS

### PROGRAMMING

Most Experienced:

Java • Android • OpenCV • XML • C  
• HTML • MySQL • PHP • JavaScript  
• CSS • Algorithms • Linux

Comfortable With:

Python • C++ •  $\text{\LaTeX}$  • Git • Octave

Now Learning:

Kotlin • Assembly • Functional  
Programming

## HOBBIES

Music • Reading • Art • Photography  
• Travelling • Motorsport

## INTERESTS

Cybersecurity • Data Privacy • Ethics  
of Artificial Intelligence

## EXPERIENCE

### ORACLE CREATIVE MEDIA LTD. | WEBSITE DEVELOPMENT INTERN

July - August 2017 | Southend-on-Sea, United Kingdom

- Tasks included optimising the company's newly launched website and designing a template website that could be used as a sample of their products.
- In the last week I was given the opportunity to design and develop a website for a client.
- I gained a better understanding of PHP, dynamic content creation, content management systems and search engine optimisation.

## PROJECTS

### WEBSITE MANAGER | IMPERIAL COLLEGE SYMPHONY ORCHESTRA

May 2020 - August 2021 | [Link to Website](#)

- Managing the Imperial College Symphony Orchestra website.
- Tasks include updating website content and general maintenance.

### GENETIC STOCKS

June 2020 | [Link to Github](#)

- A group project within Imperial College London, using C to create a genetic algorithm which trained a multilayer perceptron to predict stock prices based on given training data.
- Groups consisted of four members. Challenges faced included adapting to work in a group remotely, choosing a suitable implementation for the given timeframe and avoiding vanishing gradients.

### BAINES GARDENING

August 2017 | [Link to Website](#)

- Website created for a client during my internship at Oracle Creative Media Ltd.
- Created following a specification set by the client, implementing Oracle Creative Media's content management system.

## AWARDS

2019	Coldstream Guards Award	Imperial College London
2019	Ash Scholarship	Imperial College London
2019	Governor's Academic Award	Westcliff High School for Boys
2018	Under-19 Prize	Essex Young Musician of the Year
2017	1st Place	Southend Rotary Club Young Musician
2017	Under-19 Prize	Essex Young Musician of the Year
2015	Organ Scholarship	Westcliff High School for Boys

## OTHER ACTIVITIES

2020 -	Local	Website Manager, Imperial College Symphony Orchestra
2019 -	Local	Imperial College Symphony Orchestra
2019 -	Local	City and Guilds Union Motor Society
2017 - 2019	National	Principal Bass Clarinettist, National Youth Orchestra
2015 - 2017	National	Clarinettist, National Youth Wind Orchestra
2010 - 2015	National	Clarinettist, National Children's Orchestra