# Alex Usher

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## EDUCATION

**Imperial College London** — London, UK
*Bachelor of Engineering in Computing* — *September 2019 – June 2022*

**Trinity College London** — London, UK
*Associate's Diploma in Music Performance* — *July 2017*

## EXPERIENCE

**Website Development Intern** — July 2017 - August 2017
*Oracle Creative Media* — *Southend-on-Sea, UK*

- Optimised OCM's newly launched website using SEO. It is now top 3 in the area for website design related searches.
- Designed and implemented a template website for OCM to show clients as a sample of their products.
- Implemented a website for a client with a custom CMS made in PHP.
- Gained a better understanding of PHP, dynamic content creation, SEO and content management systems.
- Learned about how to work in a team within a workplace environment.

## PROJECTS

**Website Manager - IC Symphony Orchestra** | *HTML, CSS, JavaScript, Django* — April 2020 - Present

- Tidied the existing website and updated content.
- Implemented a back-end for the site using Django and SQLite.
- Designed new features at the request of the committee.
- Used Django objects and design templates to make the appearance more consistent.
- Moved the website to a new domain to make it easier for publicity to advertise.

**Genetic Stocks** | *C, Python, Machine Learning, Git* — June 2020

- Worked as part of a four-member group for a project within Imperial College London.
- Implemented together a genetic algorithm, optimising the hyperparameters of a multi-layer perceptron which predicted stock prices.
- Forced to adapt to working as a group remotely, completing the project within the timeframe of a week.
- Challenged to choose implementations of high accuracy but that could be created within the short timeframe available.

**Finance App** | *Java, Android, XML, SQLite* — August 2019 – September 2019

- Full-stack development of an Android application for managing budgets and finances.
- I adapted to using the Android Java libraries and how they interact with SQLite.

## TECHNICAL SKILLS

**Most Experienced**: Java, Android, C, SQL, Web Development, Git
**Comfortable With**: Python, Kotlin, Haskell

## NOTABLE ACHIEVEMENTS

**Coldstream Guards' Scholarship** | *Imperial College London* — April 2019

- Awarded to the most promising musician entering the new cohort.
- The received is entitled to £100 per year for music purchases.

**Ash Scholarship** | *Imperial College London* — April 2019

- Awarded to the most talented musicians entering the new cohort. Entitles the holder to music lessons at RCM for three years.

**National Youth Orchestra** | *Clarinettist* — December 2017 - December 2019

- Worked together as a section to achieve a high quality sound.
- Played with attention to detail and finesse.