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 • Kotlin • C • Git • Haskell • Website Dev • MySQL • PHP • NodeJS • Algorithms • Linux
Comfortable With:
Python • C++ • LaTeX • Django • Flutter • Scala • C#
Now Learning:
OCaml • ReactJS

HOBBIES

Music • Reading • Art • Photography • Travelling • Motorsport

INTERESTS

Cybersecurity • Data Privacy • Ethics of Artificial Intelligence • Compilers

EXPERIENCE

EXPEDIA GROUP | Software Development Intern
June - August 2021 | London, United Kingdom
- Designed, developed and tested a Slack integration to get information and statuses off of the team's AWS boxes.
- Gained a better understanding of how software development teams operate.

MOVEMED | Software Consultant, Developer
November 2020 - March 2021 | London, United Kingdom
- Worked with clients to develop a Unity application to help treat those suffering with reduced hand-eye coordination and dexterity.
- Developed a Unity game in C# with fluid difficulty that could adjust to the user's ability.
- Learned a lot about how to interact with clients in a professional manner.

ORACLE CREATIVE MEDIA LTD. | Website Development Intern
July - August 2017 | Southend-on-Sea, United Kingdom
- Optimised the company's newly launched website with SEO.
- Created a template website that could be used as a sample of their products.
- Designed and developed a website for a client.
- Gained a better understanding of PHP, dynamic content creation, content management systems and search engine optimisation.

PROJECTS

WACC COMPILER | Imperial College London
January - March 2021 | Internal Project
- Implemented an optimising compiler for the WACC language in a group of four.
- Worked effectively as a team to achieve a grade of over 95%.
- Learned much about compiler concepts, including parser generators, symbol tables and optimisation techniques.

WEBSITE MANAGER | Imperial College Symphony Orchestra
May 2020 - Present | 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
- Used C to create a genetic algorithm which trained a multilayer perceptron to predict stock prices based on given training data.
- Forced to adapt to working in a group remotely during the project.
- Successfully chose a suitable implementation for the given timeframe while avoiding vanishing gradients.

AWARDS

2019	Coldstream Guards Award	Imperial College London
2019	Ash Scholarship	Imperial College London
2019	Governor's Academic Award	Westcliff High School for Boys

OTHER ACTIVITIES

2021	Local	ICHelloWorld Hackathon
2020 –	Local	Committee, Imperial College Symphony Orchestra
2019 –	Local	Imperial College Symphony Orchestra
2017 – 2019	National	Principal Bass Clarinettist, National Youth Orchestra