Owen Lund

Integrated Masters in Physics - Durham University
Graduate Software Developer - London Stock Exchange Group

CONTACT INFO

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SKILLS

PROGRAMMING
Python - 4 years
SQL - 1 year
Java - <1 year

TOOLS
Linux command line
Git version control

SOFTWARE
MS Office
Tableau
Geneos

HOBBIES

Co-captain & Treasurer
Van Mildert Ultimate Frisbee
B Team
(2015/16)

Member
Durham University
Mountaineering Club
(2013/15)

Assistant Scout Leader
Ruthin Scout Group
(2012/13)

EDUCATION

DURHAM UNIVERSITY | Integrated Masters in Physics (MPhys)
Sep 2013 - Jun 2017 | Durham

- Graduated with First Class Honours Degree
- Final Project Title: "Artificial Neural Networks for Predictive Adaptive Optics"

YSGOL BRYNHYFRYD | 6^{th} Form & Secondary School
Sep 2006 – Jun 2013 | Ruthin, Wales

- A Levels in Physics, Mathematics & Chemistry - A* A* A*
- AS Levels in Further Mathematics & Geography - A A

EXPERIENCE

LONDON STOCK EXCHANGE GROUP | Graduate Programme
Sep 2017 – Present | London

- LCH - Group Risk IT | Software Developer

  My first rotation of the LSEG graduate programme is with Group Risk IT development. The team is responsible for the RRM database which monitors all member positions and quantifies their overall risk. In this role I am developing my Java & SQL skills by working on the database and ETL software, developing a monitoring tool using Geneos, and supporting a Tableau Server.

LONDON STOCK EXCHANGE GROUP | Internship
Jun 2016 – Aug 2016 | London

- Technology Projects and Architecture | Intern

  I had two roles during this internship. Firstly, I worked with the Global Technology Innovation Team to research the application of blockchain technology. Secondly, I worked with the Project Management Office in Information Services where I assisted several projects aiming to create and develop FTSE indices.

LYONS WOODLANDS HALL | Bartender & Waiter
Jul 2014 – Aug 2015 | Ruthin, Wales

GLAN CLWYD HOSPITAL | Medical Physics Placement
Jun 2012 | Bodelwyddan, Wales

UNIVERSITY PROJECTS

ARTIFICIAL NEURAL NETWORKS FOR PREDICTIVE ADAPTIVE OPTICS
Oct 2016 - Apr 2017 | Durham University | Masters Project

- During my Masters Project I developed an Artificial Neural Network to predict the time-series evolution of atmospheric turbulence. These predictions enhance astronomic measurements by reducing latency related errors in Adaptive Optics systems used by scientific telescopes. I designed both MLP and Recurrent networks using Keras in Python.

QUANTUM COMPUTING & QUBIT DYNAMICS
Sep 2015 - Mar 2016 | Durham University | Physics Problem Solving

- In this 3^{rd} year module I used Python to implement a Monte Carlo simulation to study the evolution of a group of quantum states. This project progressed into modeling a CNOT gate and investigating the errors that arise in quantum logic gates.

ULTRASONIC LIQUID LEVEL DETECTION | Coltraco
Sep 2015 - Dec 2015 | Durham University | Team Project

- In this 3^{rd} year module I was part of an R&D team tasked with improving signal processing in a commercial fire-safety testing device. We developed a solution using Python to filter and analyze ultrasound frequencies leading to more accurate measurements.