

William Seaford

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Skill Set

Languages

Java
C
Python
Visual Basic

Web Scripting

HTML
CSS
PHP
Javascript

Data Science

Matlab
R
Mathematica

Specialist Java

Hadoop(Map/Reduce)
EJB

Databases

SQL

Operating Systems

Linux
Windows

Dissertation

Exploration of fractional routing

Investigated the effects of bottlenecking within a butterfly network graph. Took an in depth look at the research paper "network routing capacity" by J.Cannons and extracted the algorithm proposed, applying it towards the network graph and examined the effects certain edges with limited capacity has on the routing capacity. Topic included a review of network coding (coding information as a function at the node) and featured strong use of linear programming within Mathematica. Grade A achieved with comments made by examiners praising use of critical thinking and approach to a technically hard subject.

Education

September 2012 - July 2015

Queen Mary, University of London
2:1 BSc Computer Science(Hons)

September 2010 - August 2012

Richard Huish College
A/Level: Economics, Psychology, Mathematics
AS/Level: Business Studies, Computing, Extended Project Qualification(EPQ)

September 2005 - August 2010

Bishop Fox's Community Secondary School
A*-C GCSE's including English and Mathematics

Past Projects

- Group projects include creating a Hospital/GP application which made use of a database through Java Database Connectivity (JDBC). Role was to create the staff records module and assist in integrating it with other member's modules. Was a team leader in building a three screened mobile weather application with specific design towards early morning alarm and forecasting. Completed team data mining tasks set on Kaggle.com such as the titanic task where predictions of variables were made using existing data using regression.

- Individual projects include creating a simple fantasy game which demonstrated various programming concepts, flash card application to aid academic revision, film quiz with various difficulties and question sets and conveying knowledge about technology to a class of year 8's as a teaching ambassador. Also has high interest in solving problems posed on websites such Project-Euler and various forum boards with notable solutions on Github.

Previous Work

October 2015 - January 2016

Retail Associate

TK Maxx

Duties included cashiering, assisting customer queries and preparing stock to return to shop floor. Worked alongside a highly effective team to achieve high customer satisfaction rates in feedback surveys. Customer relation skills and team working were developed during this period alongside time management from working alongside similar duties at The Entertainer.

January 2015 - April 2015

Teaching Assistant - Undergraduate Ambassador Scheme

Brampton Manor Academy

Assigned a 10 week placement for a university module working with a year 8 class. Duties included assisting the teacher in aiding learning to pupils and answering any technical questions students have relating towards curriculum and beyond. Given control of the classroom for 20 minutes each week to teach material derived from own lesson plan with highly positive feedback and thorough enjoyment from all students. Demonstrated excellent aptitude for teaching.

September 2014 - April 2015

Student Ambassador

School of Electronic Engineering & Computer Science, Queen Mary, University of London

Duties included giving warm welcomes to perspective students, parents and third party delegates, guiding in tours around the school and the wider university and answering any questions. Spoke in lectures for up to 150 people. Quickly rose to senior in the short period employed. Developed good public speaking skills and critical leadership skills in coordinating colleagues and large groups around. Also exercised strong client based communication skills.

References are available upon request