

William Seaford

SKILL SET

LANGUAGES	Java, C, Python
SPECIALIST JAVA	Hadoop (Map/Reduce), EJB, J2EE, RESTful API
DATABASES	SQL
OPERATING SYSTEMS	<u>UNIX/Linux</u> RHEL, CentOS, Fedora, Ubuntu, Mint <u>Windows</u> XP, Vista, 7, 8/8.1, 10

WORK EXPERIENCE

MARCH 2016 – PRESENT

IT Consultant

QA Consulting, Manchester

Contracted to Capgemini for research & development of a cloud based platform using tools such as the Amazon web services EC2 and Hashicorp Vagrant and Terraform to provision environments for use in the context of API provisioning, identity management, automated provisioning and service management.

Strong use of UNIX based operating systems as well as OS X. Worked within an agile scrum environment, which included daily standups, sprint reviews and retrospectives. My contributions include implementing an automated service desk, researching advanced security software such as OSSec & SELinux as well as provisioning environments for pre-release clients.

JANUARY 2015 – APRIL 2015

Teaching Assistant

Brampton Manor Academy, East Ham

Assigned a 10 week placement for a university module working with a year 8 mixed ability class. Duties included assisting the teacher in aiding learning to pupils and answering any technical questions students had relating towards syllabus and extracurricular topics relating towards technology.

Given control of the classroom for a period of time each week to teach material derived from own lesson plan with suitable exercises tasked for students afterwards to inspire further learning. Highly positive feedback given and thorough enjoyment expressed from all students. Demonstrated excellent aptitude for teaching.

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EDUCATION

2012 – 2015 **Queen Mary, University of London**
2:1 BSc COMPUTER
SCIENCE(HONS)

2010 – 2012 **Richard Huish College**
A/LEVEL:
ECONOMICS, PSYCHOLOGY
MATHEMATICS
AS/Level:
Business Studies, Computing
Extended Project Qualification

DISSERTATION

Investigated the effects of bottlenecks 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.

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. Also has high interest in solving problems posed on websites such Project-Euler and various forum boards with notable solutions on Github.