

NICHOLAS COURTMAN

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Having spent much of my life experiencing the great outdoors through sailing, hiking and other activities I am enthusiastic about engaging more in the natural environment, particularly marine and meteorological environments. My Masters in Physics provides me with a good grasp of mathematical and physical principles, along with experience of research, experimentation, presentation, and problem solving. Developing software for work, at university, and for pleasure has given me experience in a variety of coding and database languages, and server and computer systems. My interest in music has given me experience in team work, leadership and responsibility, while helping me to become a highly motivated individual.

QUALIFICATIONS

- MPhys, 2.1 - University of York, October 2009 to July 2013
- ITIL FOUNDATION, 87.50% - 7th March 2018
- PGCE with QTS - University of Buckingham, September 2015 to July 2016
- A-levels - Maths (A), Further Maths (B), Physics (A)
- 12 GCSE's - 2A*s in Maths and Physics, 9A's, one in English, and a C

TRAINING

- Future Leaders Programme *Civil Service Local* Ongoing
- Red Hat System Administration I *Red Hat, Inc.* 16th February 2018
- Administering Red Hat Linux 7 - Part 2 *StayAhead* 8th February 2019
- Administering Red Hat Linux 7 - Part 3 *StayAhead* 14th February 2019
- Systems Operations on AWS *Global Knowledge* 2nd October 2019

EMPLOYMENT AND EXPERIENCE

- HM Land Registry - November 2018 to present: Infrastructure engineer using Puppet, AWS, OpenShift, and RedHat Linux
- Queenswood School - August 2014 to July 2017: Taught Physics at KS3, GCSE and A-level. Ran a coding club and helped with the DofE Award
- Thin Metal Films Ltd - February 2014 to July 2014: Operated vacuum-chambers to apply high-specification coatings to a variety of substrates
- AECOM Vacation Student - September 2012: Modelled residential and commercial developments with particular regard to the environmental service infrastructure
- Architectural engineering, (Marks Heeley and Brothwell) - Work experience: Created technical drawings
- Chemical engineering, (Synthomer) - Work experience: Modelled particular aspects of the economic side of the business
- Minster Host - Part time at York Minster, September 2010 to April 2012

IT SKILLS

- Coding - Used Python and Bash scripting at work to automate a variety of processes including a system to check the health of applications running on virtual machines, and a system to automate Helm deployments (all unit tested). Learning C for microelectronics and cli utils
- Databases - Administered PostgreSQL databases at work, managed migrations using Alembic, used managed access controls and backups
- Web-development - Worked with developers to debug Python-Flask and Java-SpringBoot applications. Developed Flask applications in my own time
- Linux - Managed CentOS systems at work, spinning up VMs on local datacentres and AWS. Worked with Debian systems at home
- Containers - Built and managed Kubernetes clusters. Administered OpenShift systems and automated deployments using Helm
- Automation - Automated builds on AWS with Terraform, provisioned virtual machines with Puppet, and orchestrated containers with Helm

COMMUNICATIONS, ORGANISATION AND LEADERSHIP

- Communication - Taught Physics to students from Y7 to U6th; communicated complicated concepts with the general public at Physics outreach events; listened as a Youth Pastoral Worker before going to university
- Organisation - Worked to tight deadlines in Thin Metal Films Ltd and Queenswood School; founded, ran, and served on university society committees; organised concerts in retirement homes whilst at school
- Leadership - Founded and ran two societies at university; helped lead 1st Bishop's Stortford Boy's Brigade; led a team for a children's summer camp

OUTDOOR EXPERIENCE

- Sailing and Kayaking - Completed Day Skipper, VHF Certificate and 2* Kayaking qualifications and sailed throughout my childhood: required knowledge of marine environment, chart-based navigation, basic weather prediction, and use of specialised equipment
- Hiking - Completed bronze, silver and gold Duke of Edinburgh award, and have completed many hikes and expeditions since: required knowledge of navigation, basic health and safety precautions, a good level of organisation, and enthusiasm
- First Aid - Completed first response training and basic outdoor first aid

MUSIC

- Qualifications - Achieved Grade 8 organ (distinction), Grade 6 piano, Grade 5 viola and theory
- Ensembles - Essex Young Person's Orchestra; University of York Concert Orchestra; University of York Choral Society; quartets at school and university
- Teaching and leadership - Taught piano for two years; led choirs at church before and during university; founded and conducted a small choir at university; played the organ for services since before university