DoB
27.10.1991

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Skills

Programming
- Python
- R
- C++
- Bash
- Git
- LaTeX
- HTML
- CSS
- Oracle SQL
- Javascript
- TensorFlow
- BioPython
- Theano

Professional
- Linux OS
- Windows OS
- Microsoft Office tools
- Presentation skills
- Teamworking
- Organization
- Adaptability
- Consulting

Academic
- Lab wetwork
- Statistics
- COSHH
- Quality assurance

Personal
- Calm under pressure
- Well-organized
- Cheerful
- Confident
- Eager to learn
- High work ethic
- Adaptability

William Paul Bullock

Bioinformatician

Profile: I'm a British expatriate and a former Biomedical Scientist, working to develop myself and my skill-set to provide data science solutions within the biotechnology and pharmaceutical industries.

I'm currently seeking graduate opportunities in consulting.

Education

Sept 2016 - Present: MSc. Bioinformatics
University of Copenhagen (UCPH), Denmark
Graduating in August 2018. Predicted grade 10.
Thesis(ongoing):
- "Investigation Into the Segmentation & Registration of Knee-Joint MRI scans via Convolutional Neural Network Techniques."
  - Developing a U-net fully-convolutional neural network for segmentation and registration of Osteoarthritis MRI Scans.

Research projects:
- "Feature-learning in Short Linear Motifs (SLiMs) and Characterizing SLiMs in their Structural Context."
  - Convolutional neural network which infers probability distributions for residues in alternative sequences of SLiMs.
- "Probibalistic programming for protein super-positioning."
  - PyMC3 (Theano) implementations of Bayesian inference models for protein structural alignment.

Other Subjects of study include:
Programming, biological sequence analysis, machine learning, data-mining, mathematics, statistical analysis, Bayesian inference, Markov chains, Monte Carlo methods, algorithmic programming, high throughput analysis, data visualization, population genetics, genomics, structural biology.

Oct 2010 - July 2014: BSc Biomedical Science (integrated)
University of Essex (UoE), England
Graduated with first-class honours.
Included one year's internship at Addenbrooke's Cambridge University Hospital.
All four years of the course were passed with distinction.
Dissertation:

- "What can retroviruses tell us about miRNA targeting?"
  - Data-mining large databases of miRNA binding sites and mapping them to gene sequences.
  - Presenting the results graphically and interpreting.

Other subjects of study include:
Biochemistry, drug design & pharmacology, genetics & genomics, histology, monitoring & diagnosis of disease, organic chemistry, design of experiments, cell biology, immunology, virology, structural biology.

Microdegrees & Extra-curricular Study
- Danish Language (module 1 complete)(ongoing with module 2).
- The Genomics Era: The Future of Genetics in Medicine — St George's University of London

Work Experience

Feb 2018 - Present: *Student Assistant Bioinformatician,* LEO Pharma

Digitization and automation of LEO Pharma's open innovation platform.
Main duties include:
Scientific work-flow management and optimization, data visualization, API creation, database management, digitization, database management, server management.

Sept 2014 - Sept 2016: *Biomedical Scientist,* John Radcliffe Hospital

Biochemical analysis of patient tissue samples for diagnosis, treatment, and monitoring of disease, within the Dept. of Clinical Biochemistry
Main duties include:
Teamwork & organization, performing manual (wetwork) or automated analyses, maintenance and calibration of machinery, quality control, control of substances hazardous to health, information governance, assay method comparisons and evaluations, stock management, clerical and administrative work.

Oct 2012 - Oct 2013: *Trainee Biomedical Scientist,* Addenbrooke's Hospital

Year in Industry as part of my BSc. Full-time work as a Trainee Biomedical Scientist with part-time study. Main duties were similar to those above.

Various part-time jobs

During my secondary school and university studies I worked part-time.
These positions are detailed fully on my LinkedIn.
To summarize I've gain skills in:
Manual labour, food hygiene, food preparation, sales, stock management, cleaning & caretaking, personnel management, customer satisfaction.

Public Engagement

Synapse mentorship program
http://www.synapse-connect.org/mentorship/
Currently I'm being mentored by Will Wright of Accelerace in consultation & entrepreneurship. https://www.accelerace.io/

Computational Biology Vikings (CBioVikings)
http://www.cbiovikings.org/
I volunteer by helping organize venues, catering, fund-raising, and presenters for these small symposiums.

Future Entrepreneurs of Denmark (FED)
http://fednetwork.dk/
Yearly series of workshops culminating in an ideation, business strategy and presentation competition. My group won the 2017 entry.

University of Copenhagen Alumni Association
http://alumni.ku.dk/english/

Thank you for your time and interest in viewing my CV.
Please do not hesitate to contact me with further queries, or for references.