Raman Chahal

Aspiring Bioinformatician with skills in biochemistry, data analysis, computer science as well as laboratory skills

Portfolio:
https://raman-chahal.netlify.app/

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GitHub:
https://github.com/RamanChahal98

EDUCATION

MSc Bioinformatics -Distinction- Newcastle University

2019-2020

- **Core modules:** High-throughput technologies, bioinformatics theory and practice, modelling cellular systems, programming for biologists, statistics and mathematics
- **Research Project:** Machine learning approaches for biomarker identification in hip and knee osteoarthritis

Bsc Biochemistry -2:2(Honors)- Newcastle University

2016-2019

- **Course covered many modules including:** Applied biochemistry, bioinformatics, biochemistry of gene expression, cancer and chronic disease, (DNA replication, recombination and repair), (proteins, enzymes and analysis)
- The course enforced self-directed learning to improve knowledge in the field of biomedical sciences, while also teaching industry-standard analytical techniques, which can be used in drug design and synthesis.
- **Research Project:** Modelling the impact of pH variations on trypsin in cystic fibrosis.

EXPERIENCE

Lab Assistant - Newcastle University

2016-2018

- Worked as an Lab assistant working with B.Subtilis, routinely performing pipetting, gel electrophoresis, and autoclaving.

Office Assistant - Linthorpe Surgery

2016-2018

- Tasked with updating and maintaining patient records for NHS England.
- Gained experience developing simple python and AHK scripts to streamline workflow.

First Aider - St John's Ambulance

2013-2016

- Trained and volunteered as a first aider for St John's Ambulance in the Middlesbrough area.

SKILLS

- Python
- RStudio
- Machine Learning
- Mathematical Modelling
- Linux
- HTML/CSS
- Laboratory safety and practice

PROJECTS LEARN MORE>

- Machine Learning Method for Biomarker Identificaiton
- Uniprot Protein Alignment tool
- Genome assembly/expression analysis of Chlamydia trachomatis
- Computational model of riboflavin biosynthesis in B.Subtilis
- Exploration of FLP-27
- Simple GC Content calculator
- PDF to audiobook converter