

# BEN STEEL

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## EDUCATION

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**University of Bristol** Sep 15 - Jun 19  
Integrated M.Eng. and B.Eng. in Computer Science and Electronics  
First Class (80%) (4.0 GPA Equivalent)  
Awards: Alumni Academic Achievement Award for top 3 performance in Faculty of Engineering in first year

**Exchange Year at McGill University** Aug 17 - May 18  
GPA: 3.52

## EXPERIENCE

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**Maya Heat Transfer Technologies** Jun 19 - Oct 19  
*Software Development Intern* Montreal, Canada

- Used Python and C# to develop workflow automation extensions for Siemen's NX CAD/CAM/CAE software, using the NXOpen API.
- Gained experience writing professional quality software as part of a team using an Agile test driven development methodology.
- Became competent using Git, GitLab, and VSCode in a industrial, shared environment.

**Biosignal Interaction and Personhood Technology Lab, McGill** May 18 - Aug 18  
*Android Developer* Montreal, Canada

- Lead developer on Biomusic Android app, creates biosignal derived music for improved patient/carer relations.
- Worked with contracting backend developer to add database storage functionality using MySQL and Realm.
- Created data visualisation GUI for biosignal data using Android Studio.
- Prototyped machine learning based signal processing algorithms in MATLAB and Python.

**Visual Systems Lab, McGill** Sep 17 - Apr 18  
*Research Assistant* Montreal, Canada

- Used local SGE computing cluster system to improve processing times due to size of datasets (order of TBs).
- Became familiar with Bash to move and manipulate datasets, and gained competence in using Unix based operating systems.

**Control Techniques Ltd.** Jun 16 - Aug 16  
*Summer Intern* Newtown, Wales

- Debugging an ARM microprocessor via JTAG, using industry level software, in an industrial environment.

## PROJECTS

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**Modelling all Optical Neural Networks in Python - Masters Research Project** Sep 18 - Apr 19

- Trialling complex valued convolutional neural networks implemented with a novel all optical architecture.
- Modelling novel architectures and performing experiments using NumPy and TensorFlow.

**Music Streaming Cloud Based Web App** Nov 18 - Dec 18

- Using Flask and Vue.js to create a music streaming site, using the Spotify API for extra features.
- Hosted on AWS Lambda using the Serverless Framework, using DynamoDB and S3 for storage.

**Face Detection and Age Classification using OpenCV - Group Project** Dec 17

- Detecting face feature extraction, using OpenCV, and age classification using scikit-learn.

## SKILLS

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<b>Computer Languages</b>	Python, Java, C#, MATLAB, C/C++, Vue.js, Bash
<b>Software</b>	AWS, Git, Visual Studio/Code, Gitlab, Android Studio, Ubuntu, LaTeX