

CHRISTOPHER RAUCH

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EDUCATION

University of St Andrews

B.Sc. (Hons) in Computer Science (expected result 1.1)

September 2015 - June 2019

Scotland, UK

- Current **GPA 3.9/4.0**, awarded **Deans List**.
- **Executive Committee Member** of University **STACS Computing Society** and member of the **Rugby Team**.

Udacity

Deep Learning Foundation Nanodegree Graduate

March 2017 - July 2017

Online

- Gained experience using Normal, Convolutional and Recurrent Neural Networks. Additionally, I tested the capabilities of GANS.

EXPERIENCE

BBOXX

Software Engineer Intern

May 2017 - September 2017

London, UK

- Implemented **device disaggregation** to allow the company to see the exact power each device was dissipating for each customer.
- My work is **instrumental to the company's success**; their main business is providing solar power solutions.
- Used the **full stack** to inject my algorithm into the front-end analytics page. Technologies used: **Python, JavaScript, InfluxDB**

University of St Andrews

Undergraduate Researcher

January 2017 - Present

Scotland, UK

- Researched recent **Computer Vision** and **Machine Learning** techniques for **facial and emotion detection** gaining extensive knowledge and hands-on experience in the area.
- Developed the **full stack** of a **facial detection Android App** using web sockets for communication between a **Java front-end** and a **Python back-end**. Technologies used: **OpenFace, OpenCV, Torch, SQLite**

Down High School

Software Engineering Mentor

September 2014 - June 2015

Downpatrick, UK

- Mentored high school students in year 13 taking a Software Systems Development A-Level.
- **Helped the students understand key concepts** of the course as well as programming concepts.
- Worked through difficulties they were facing in their programming coursework throughout the year.

ACHIEVEMENTS

- **2nd Place in Northern Ireland** in the Software Systems Development A-Level 2015.
- **Healy Cup** for Computer Science (**No. 1 Student** in High School A2-Level in the field of Computing 2015).
- Computer Science Subject-Based Scholarship (University of St Andrews 2015).
- Runner up for the Adobe Prize Bursary for entrant Computer Science students at the University of St Andrews 2015.

PROJECTS

Deep Learning Projects

Personal Projects

- **Generated** my own Simpsons **TV scripts** using **Recurrent Neural Networks**.
- Trained my own sequence to sequence model to **translate new sentences from English to French**.
- **Built and Trained a Convolutional Neural Network** to **classify images** from the CIFAR-10 dataset.

SafeSesh

Hackathon Project

- Developed a Web App and Swift App that used the **Monzo API** to allow users to set spending limits on nights out.
- If the user went over said limit they would have to pass a reaction test game to be allowed to set a higher target.
- Technologies used: **HTML, CSS, JavaScript, Swift, Monzo API**

TECHNICAL STRENGTHS

Computer Languages

Frameworks & Databases

Tools

Java, Python, C, C#, JavaScript, Haskell

TensorFlow, scikit-learn, MySQL, SQLite, InfluxDB

Git, Emacs, Vim, L^AT_EX