

CURRICULUM VITAE OF BECKS SIMPSON



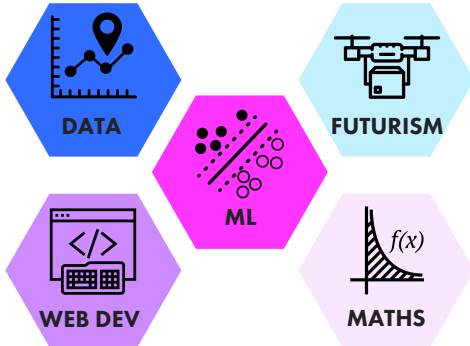
Hello, my name is Becks, I am a recent Electronic and Informations Engineering Graduate with one year of experience in FullStack Development & Research. I'm seeking opportunities to improve my capabilities in the fields of Machine Learning and Data Analysis.

I'm passionate about futurism, researching emerging technologies and exploring data & machine learning. I'm looking for a learning orientated professional environment where I can make a real impact and tackle challenging problems.

CONTACT

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rs6713.github.io/portfolio/
github.com/rs6713

INTERESTS



GROWTH

I'm a frequent attendee of hackathons, tech talks and am always looking for opportunities to improve my existing skill sets.

INDEPENDENT LEARNING

- Google Machine Learning Crash Course
- HackerRank Challenges: SQL 58/58, Problem Solving 100+/563

I am also a Co-Organiser of the annual Nonbinary In Tech Conference, that highlights the amazing work of nonbinary people in tech.

PROJECTS

BUILD A NEURAL NETWORK

Web App developed using deeplearning.js (tensorflow.js precursor), inspired by tinyurl.com/y9ln646s. Users can learn about the history of neural networks, then train their own image classifier using webcam footage.

PONG GENETIC ALGORITHM

Tkinter Pong Demo that learned how to move the paddle according to the balls movements using a basic evolutionary algorithm.

EMOTICON OVERLAY

Real time OpenCV Python App that called the Azure facial emotion recognition API to overlay emoticons on detected faces. Footage and API calls were handled using threading.

DISABILITY HACKATHON

Used NLP (Sentiment Analysis, KeyWord Extraction) to score an insurance document's disability friendliness.

EXPERIENCE

2018-19 Junior Software Engineer

SohoStrategy - 5 Months

Developed a Dataset CMS with React Frontend & Node.js Backend connected to a PostgreSQL Database. This was setup on AWS: RDS, EC2 with CodeDeploy. Collected metadata via Scrapy.

2017-18 Prototype Developer

NBC International - 1 Year

Researched new, emerging technologies impacting the media industry & completed several FullStack App Projects. Developed Demos to raise awareness of the different fields of AI, ML and the Developer tools available.

TakeAway: Learned about the role of AI & ML as the next big industry innovators

2013-17 EIE MEng 2:1

Imperial College London - 4 Years

Electronics and Information Integrated Masters, with a final year focus on Machine Learning.

Courses: ML, HCI, Pattern Recognition, High Performance Computing, Networks & Security, Graphics and Robotics

Final Year Project: (Deep) Learning the association between pedestrian images and their Natural Language Descriptions. Word2Vec Sentence Embeddings, and image features were compressed using Auto Encoders. These were then fused and input to a correlation CNN that would output their pairwise similarity [0 → 1].

TakeAway: How to automate parameter tuning, experiment with different neural structures and the importance of feature engineering and Dataset augmentation.

2016 Future Academy Resident

AKQA, UK - 3 Months

Participated in a series of Startup-like Agile Sprints, involving Ideation, User Testing, Visual Prototyping and Pitching.

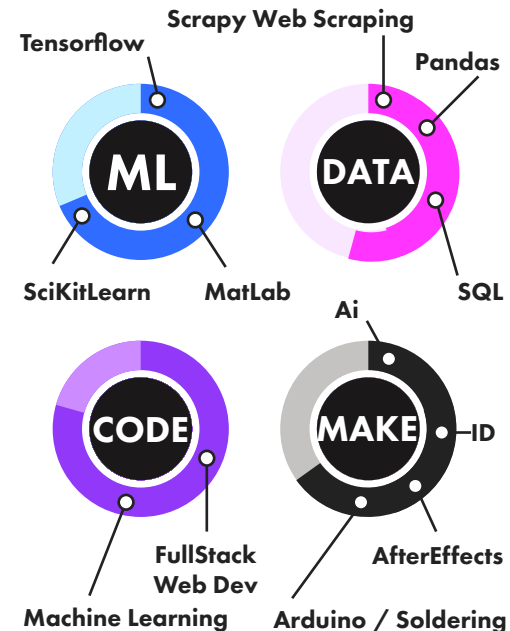
TakeAway: How to develop a compelling narrative and visuals to communicate a problem/solution to clients.

2005-13 Secondary School

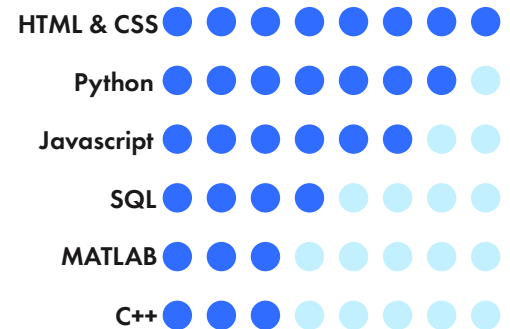
Dame Alice Owens, UK

Further Maths=Physics=Chemistry=A*

SKILLS



LANGUAGES



FWS/LIBRARIES

DATA

Pandas NumPy Scrapy MongoDB

MACHINE LEARNING

SciKit-Learn NLTK Tensorflow
MicrosoftAzure MATLAB-NeuralKit

DEVOPS

AWS (CodeDeploy, EC2, RDS) CircleCI

FRONTEND

React Angular SCSS JQuery

BACKEND

NodeJS

EXPERIENCE →

