**Jason burgess**

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**Profile**

Computer Science graduate (1st Class Honours) with a year of professional experience in the software industry working as a data and software engineer for a successful startup developing voice assistant technology using artificial intelligence. Looking for a position where I can contribute to a team of talented engineers developing products with a positive impact on people’s lives

**Education**

**BSc Computer Science with Professional Experience | 1st Class Honours | Queens University Belfast***Sept 2018-July 2022*

* **Final Project**: Multimodal Phrase recognition with neural language models (75)**.** Trained transformer language models in the manner described in Google’s 2019 roBERTa paper to predict sentences based on visual cues represented as a sequence of visemes (lip movements) and wrote a research paper on my findings. Evaluated on test set of sentences made up of a vocabulary of 1k words with best model achieving 81% word accuracy

**Skills:**

Java, Python, C++, MATLAB, JavaScript, Machine Learning, Deep Learning, NLP, Computer Vision, HTML, CSS, Docker, Android Development, Web development, SQL, Malware Analysis, Assembly code

**Professional Experience**

**Software Engineering Placement | Aiqudo (Acquired by Peloton Ltd Feb 2021)***Jul 2020-Jul 2021*

* Developed and maintained automated data generation pipeline producing version controlled training data for a distil-BERT model performing Named Entity Recognition for voice assistant technology
* Member of machine learning engineering team, took part in daily standups and actively contributed to sprint planning and review
* Involved in all aspects of data process including extraction, transformation, labelling, visualization and exploration
* Conducted experiments into multilingual abilities of these models and presented findings to the wider team
* During my time there, Aiqudo was acquired by Peloton Inc. for $58 million. I spent the remainder of my placement year developing voice technology for the Peloton guide, which was released shortly after I returned to University

**Skills**:

Python, Java (Spring Boot), Docker, Jenkins, Kubernetes, Jupyter Notebooks, Javascript, Web Scraping, Data labelling, Data visualization, Exploratory Data Analysis, Data Pipelines, Apache Airflow, S3, EMR, EKS, MongoDB, Scrum Development, Jira, Confluence

**Additional Work Experience**

**Chef | YoBurger***July 2022-June 2023*

* Took a break from professional software development after graduation
* Prepared food to a high standard in a timely manner, promoted to supervisor after 2 months, took on more leadership responsibilities and trained new staff
* The most important skill I developed here was maintaining composure and order when working in a high pressure environment to tight deadlines

**Selected Projects**

**Language Detector –** Machine learning model that detects the language of a text input, Support for 45 languages. Deployed as a space on huggingface  
**Discord Chatbot-** Fine-tuned Microsoft’s dialogpt on discord messages from a friend of mine. Deployed the model as a discord chatbot running 24/7 with <2s reply time using Replit. I also wrote a guide so that others can do the same

For a complete and detailed list of my projects including links to source code, please visit my website jb-2k.github.io/Portfolio-Website/

References available on request