

Joshua Bray

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PERSONAL PROFILE

A University of Westminster BSc Computer Science graduate, achieving a first-class honours. Strong academic background and a focused interest in data science. Knowledgeable in areas such as CNNs, search algorithms, reinforcement learning, supervised and unsupervised learning etc.

KEY SKILLS

- Proficient in Python, R, MATLAB, and SQL through university and other extracurricular activities.
- Experience with Scikit-learn, NumPy, Matplotlib, Pandas, Keras, NLTK, BeautifulSoup, and VADER.
- Working knowledge of machine learning algorithms and the machine learning lifecycle from data representation through to model training and inference.
- Understanding of relational and non-relational databases.
- Awareness of software engineering best practices such as requirements analysis, system design, modularity, version control, testing, documentation, etc.

EDUCATION

University of Westminster, London, UK

Sep 2019 – Jun 2022

BSc in Computer Science, Expected (1st).

- Relevant modules:
 - Machine Learning and Data Mining.
 - Applied AI.
 - Data Visualisation and Dashboarding.
- Academic projects:
 - K-means analysis with a vehicle dataset.
 - MLP neural network for a forecasting problem.
 - AI agent using Breadth-First Search to play snake.
 - Visualisations and data preparation for knife crime in London using various datasets.

Westminster Employability Award, (Gold).

George Mason University, Virginia, US

Jul 2021

Two-week summer school program on Machine Learning/AI with Python.

- Relevant modules:
 - Advanced Python.
 - Data science.
 - Machine learning modules.
- Academic projects:
 - SVC for digit recognition.
 - NLP using a multinomial Naive Bayes classifier.
 - Neural-network powered arcade space shooter.

Oaklands College, Hertfordshire, UK

Sep 2015 – May 2017

Level 3 Extended Diploma in Computer Science, (D*D*D).

Stanborough School, Hertfordshire, UK

Sep 2010 – Jun 2015

10 GCSE's, grades (A-C) incl Math, English, and Science.

WORKING EXPERIENCE

Computacenter | Facilities Support 1 | Hertfordshire, UK

Apr 2018 – Jun 2019

- This position tasked me with the upkeep of Computacenter headquarters. The role included cleaning, warehouse work, and the training of new recruits. This opportunity provided me with:
 - A view into my ideal work environment.
 - A stronger interest in data and technology.
 - Leadership qualities.

VOLUNTEERING EXPERIENCE

Celonis | Masterclass in Process Mining | Remote

Jun 2022 – Jul 2022

- A three week blend of live online workshops with a tutor, and self-paced online learning regarding data science and its impact on business. Through this opportunity I gained the ability to:
 - Learn and apply process mining skills.
 - Gain skills to solve real-world challenges for companies.
 - Become a skilled user of the Celonis technology at business user level.

Showcode | Level-up Society Hackathon | Remote

Jul 2021

- A two day hackathon based upon gamification. The four categories were Better Retail, Better Security, Better Mental Health, and Better Learning. Through this experience I improved my:
 - Written and oral communication skills.
 - Ability to work within a team.
 - Presentation skills.

ServiceNow | Training and Hackathon | Remote

May 2021

- The School of Computer Science and Engineering at the University of Westminster in collaboration with ServiceNow hosted a 3-day Application Development Training Programme followed by a 2-day Hackathon. During this work experience I was able to better my:
 - Time management and planning.
 - Application development skills.
 - Industry knowledge and experience.

Our Ingenious World | The Big Engineering Work Experience Week | Remote

Jul 2020

- This was a week of exciting immersive talks, learning sessions and design activities. With speakers from global leading companies, organisations, and institutions such as ARUP, Google, Laing O' Rourke, and JOMAS. This experience helped give me:
 - Insight into the world of engineering for the built environment.
 - Motivation and curiosity for engineering.

HOBBIES & INTERESTS

- In my spare time I enjoy wild camping, hiking, running, and playing football.
- I have plans to complete Wainwright's coast to coast walk. A 190 mile walk from St. Bees Head to Robin Hood's Bay.
- I play my football with the Westminster dragons futsal club, a sports society at the University of Westminster.

REFERENCES AVAILABLE ON REQUEST