Travis Chapple, MSc* Big Data Analyst, BSc Computer Scientist

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Personal Statement

A Course Leading & Motivated MSc Big Data Analytics student at Sheffield Hallam University, with a strong foundation in Computer Science and a practical understanding of full-stack development, data analysis, and team-based projects.

I bring hands-on experience in Python, SAS, and data-driven programming with a focus on real-world applications, including AI/ML for medical image analysis and full-cycle software delivery using C#, React, and ASP.NET. My academic background is complemented by projects involving clustering algorithms, mobile-friendly interfaces, CRUD functionality, and visual analytics.

In parallel, my role at Tesco has honed vital soft skills in communication, stakeholder engagement, and leadership under pressure, skills I believe are essential for contributing effectively in cross-functional teams. I am eager to contribute to mobile app development, real-time data integration, and analytics reporting within a dynamic team, while gaining deeper exposure to cloud platforms, IoT integration, and modern development frameworks.

Experience

STUDENT SOFTWARE DEVELOPER | CURRENT (AUGUST) – JAN 2026 | SHEFFIELD CAMPUS JOBS

- Beginning to End Implementation of a Live Data Mobile Application for Machine Data.
- IOS, Android, Google Cloud Platform, Database Design.
- Headhunted by Senior Lecturers for a lead development role.
- Mentoring BSc Students.

CUSTOMER ASSISTANT | TESCO PLC | 2017 – PRESENT

- Recognised by management for leadership and problem-solving.
- Regularly led departmental teams to meet KPIs and improve operations.
- Selected to implement and promote new store-wide initiatives.
- Strengthened interpersonal skills and stakeholder satisfaction focus.

Education

MSC BIG DATA ANALYTICS | CURRENT | SHEFFIELD HALLAM UNIVERSITY

Gaining Valuable Experience in Tangible Situations with a Focus on Group Projects and Adhering to Industry Standards.

Data Analytics Tools and Techniques, (88%)

- Applied **statistical BI** with SAS.
- Data ETL Processes.
- Focus on **Regression and Classification** Techniques.

Data Driven Python Programming, (83%)

- Gathering Business Insights using **Vital Data Processes**, such as **NumPy, Pandas, SciKit Learn, and Graphical Visualisation Tools.**

Project Management & Study Skills, (74%, Pending Grade)

- Focus on Real World Project Methodologies and Relevant Case Studies to Accrue Vital Insights into Operational Normalities.

Advanced Data Management, (63.7%)

- Large-scale SAS Project, Team focused on delivering results for real-world clients.
- Data Visualisation and Distributed File Systems, Tableau, HDFS.

Master's Thesis, (Pending)

- List of modules: Design and Implementation of a Non-Contact Sensor System for Fibre-Deployment Data Acquisition.
- Very High Chance of Patent and Publication.
- Collaboration with Aerospace Cutting Tools Ltd.

Current Overall 120/180 Credits (74.64%), 61% Required for a MSc Distinction.

COMPUTER SCIENCE 2:1 (68%) | 2020-2023 | SHEFFIELD HALLAM UNIVERSITY

- List of modules:
  - **Dissertation**: Analysing Retinal Images for Glaucoma using Simultaneous Modelling and Clustering Techniques, Artificial Intelligence, Machine Learning and Neural Networks, **2:1.**
  - Advanced Software Projects, Project Leads and Backend Development using C#, Python, and C++.
  - *Artificial Intelligence & Machine Learning* **– First-class**.
  - Strong emphasis on **Python, Neural Networks, and Computer Vision.**

Projects

- **Clustered Computer Vision with Artificial Intelligence and Machine Learning** to Detect and Diagnose Glaucoma to Help Lower Optometrist Waiting Times.
- **Trading Funds on NASDAQ and FTSE** using AI, ML and Neural Networks to Profit Greater than Inflation over 67 Years.
- **ASP.NET Group Project for UK-based Charity** Access for All, where I led an Agile Software Development Against a Strict Week Deadline.
- **Computer Vision Projects** with Real Applications such as Number Plate, Facial and Pattern Recognition.
- **React Software Project,** Creating a School Registering System, with CRUD functionality.

Skills

TECHNICAL:

- Python (7+ years) – AI/ML, data wrangling, web development.
- SAS – Business Intelligence & analytics reporting.
- Data Visualisation – Pandas, MATLAB, developing reports & dashboards.
- SQL, MATLAB, ASP.NET (C#).

BUSINESS & SOFT SKILLS:

- Excellent communicator, both verbal and written.
- Experienced in leading Agile team projects.
- Stakeholder engagement and business requirement gathering.
- Strong time management and attention to detail.

Leadership & Extracurricular

- Coffee & Code Society (Lead, Final year) – Organised collaborative programming sessions.

Awards:

- W.H. Bacon Award for Academic Excellence.
- Subject Nominee – Computer Science.
- Volunteered in peer mentoring and student support.