Christopher Kersov

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Education

University of Bath 2023 – 2027

BSc (Hons) Computer Science and Artificial Intelligence with Professional Placement

- First Year Obtained Mark: **1st** (75% average)
  - Programming 1 (73%), Programming 2 (89%), Artificial Intelligence (76%)
- Second Year Obtained Mark: **1st** (72% average)
  - **Machine Learning:** Explored fundamental supervised, unsupervised, and reinforcement learning techniques including SVMs and deep neural networks. Developed practical skills using Python and ML libraries.
  - **Artificial Intelligence 2:** Advanced study of AI techniques for computationally hard problems, covering probabilistic reasoning, sequential decision making, GANs, transformer models, and AI planning.
  - **Foundations and Frontiers of Machine Learning:** Examined theoretical foundations of modern ML algorithms alongside state-of-the-art applications and current research. Applied mathematical and statistical theory to practical implementations.

St Dominic's Sixth Form College 2021 – 2023

A-Levels

- Computer Science (A*), Mathematics (A), Further Mathematics (A)

Experience

R&D Data Science Placement Year 08/2025 – 09/2026

Shell *Shell Centre, London*

- Built time series classification algorithms to identify similar EV charging patterns and support charging predictions.
- Contributed to a Temporal Fusion Transformer model predicting EV charging curves to enable dynamic load management across Shell Recharge sites.
- Used Databricks daily to analyse hundreds of millions of rows of charging data across Europe, Asia, and North America, producing insights and presentations for technical and non-technical stakeholders.

Retail Assistant 08/2021 – 05/2025

Screwfix *Gerrards Cross, Bath, Hayes*

- Assisted all customers with positive attitude, regularly converting inquiries to sales in fast-paced environment
- Identified high-spending customers, built relationships, and promoted them to trade accounts to increase revenue
- Enhanced teamwork and leadership skills, ensuring smooth store operations and meeting weekly sales targets

Projects

US Open 2025 Match Prediction Model | *Python, XGBoost, BeautifulSoup, Pandas, NumPy, scikit-learn*

- Developed XGBoost model to predict US Open 2025 match winners using gradient boosting with sequential training
- Scraped 6,900+ tennis matches from multiple sources to build comprehensive training dataset
- Engineered features including dynamic ELO ratings with variable K-factors, surface-specific stats, and form metrics
- Implemented ML pipeline with hyperparameter optimisation to iteratively improve predictions throughout tournament

LeetCode Statistics App | *SwiftUI, WidgetKit*

- Developed iOS app with minimalist UI to track LeetCode progress using GraphQL API integration
- Built interactive heatmap widgets and real-time statistics visualisation for progress monitoring
- Implemented local data caching with Core Data to minimise API calls and improve performance
- Deployed customisable home screen widgets; conducting TestFlight beta testing for App Store release

3DS MPO Wobble Tool | *Python, Streamlit, Pillow, NumPy*

- Built a web app converting Nintendo 3DS `.mpo` files into animated wobble GIFs, hosted on Streamlit
- Implemented stereo frame extraction, crop alignment, and pixel diff scoring to quantify alignment quality
- Added auto-optimise using brute-force search across all crop values to minimise diff score and remove guesswork
- Generated smooth crossfade transitions between stereo frames with configurable cycles, hold duration, and scale

Technical Skills, Activities & Interests

Technical Skills: Python, SQL, JavaScript, SwiftUI, C++, R, DataBricks, Git, Docker, Azure, Latex, Excel
Libraries & Frameworks: PyTorch, TensowFlow, PySpark, Pandas, NumPy, Seaborn, Streamlit, React, Node.js, Flask
Activities & Interests: Tennis, Badminton, Table Tennis, Padel, Speedsolving Rubik's Cubes of Various Shapes and Sizes