

William Inkpin

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Personal Statement

Computer Science Graduate (2:1) with multiple years of professional team leadership experience. Proven record of building and deploying software applications including a full-stack food ordering platform as well as executing original federated learning research benchmarking privacy-preserving machine learning strategies. Brings a practical, self-motivated approach to software development alongside international work experience.

Technical Skills

Languages: Python, JavaScript/TypeScript, C#, C++, SQL, MATLAB.

Libraries and Frameworks: PyTorch, Flower, NumPy, ROS2, OpenCL, scikit-learn, seaborn, React.

Tools: Git, MySQL, Docker, RestAPIs.

Education

BSc (Hons) Computer Science · University of Lincoln · 2:1

2023 - 2026

Machine Learning · Artificial Intelligence · Scalable Database System · Team Software Engineering · Robotics · Mobile Development

BTEC Computing · Lincoln College · Distinction

2021 - 2023

Projects

Food Ordering Application · Next.js, Firebase, SumUp SDK, Redis · baps2go.com

- Designed, built and deployed a live food ordering web application implementing robust full-stack architecture to handle secure authentication, database queries, analytics and real-time transactions.

Federated Learning · FedAvg, FedProx, FedNova, PyTorch, Flower, MobileNetV2

- Federated Learning for Privacy-Preserving Driver Drowsiness Detection:* Designed and built a benchmarking system to evaluate federated learning strategies against a centralised baseline, assessing model performance across simulated non-IID vehicle fleets under varying image degradation conditions.

Work Experience

Restaurant Manager · Damon's Restaurant · Lincolnshire, UK

2016 - 2023

- Promoted to manager for the final 2 years of employment after initially joining as a busser, taking full accountability for shift operations, cash handling and business performance.
- Developed strong leadership whilst training new staff members and resolving operational issues in a fast-paced environment.

Camp Counselor · Shady Oaks · Illinois, USA

Jun - Aug 2024

- Delivered dedicated 1:1 care and high-energy support for individuals with complex physical and mental disabilities, taking full responsibility for their safety during high-risk activities such as swimming and trips.
- Adapted to a high-pressure environment, collaborating with an international team to organise daily schedules and maintain strict health and well-being standards.