

# Paul Ezennolim

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## EDUCATION

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### University of Sheffield, BSc in Computer Science

Expected Graduation Summer 2026

- **Core Concentration:** Software development, Machine Learning, Data Science; **Degree classification:** 2:1 (Second Year)
- **A-level/BTEC grades:** A/B/Distinction\* – Mathematics, Physics, ICT; **GCSE:** 9 A\*/A in all core subjects Maths and Science
- **Relevant coursework:** Software Dev, Algorithms and Data Structures, Data Driven Computing, Reinforcement Learning

## EXPERIENCE

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### Moody's Analytics

UK, Manchester

Data Specialist Intern

June 2025 – August 2025

- Processed and updated advisor and company information from M&A transaction sources, using structured cross-functional team research processes and internal databases, ensuring datasets were complete and aligned with corporate standards.
- Maintained and tracked weekly backlog and team productivity logs, using structured documentation, prioritisation methods, and Excel-based tracking workflows, that improved operational transparency and overall team planning efficiency.
- Validated, cleaned, and standardised incoming data records, using detailed systematic quality checks, reconciliation processes, and Excel-based workflows, reducing reporting inconsistencies and significantly improved overall data reliability.
- Supported daily project delivery, using effective time management, task prioritisation, workflow coordination, progress tracking, and strict process adherence, that ensured consistent, high-quality execution of recurring data update tasks.
- Collaborated with regional research teams on data verification and record creation, using primary source analysis, internal tools, and quality frameworks, that enhanced dataset accuracy while upholding high integrity across the M&A data product.

## PROJECTS

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### Carbon Flux Quantification Thesis

UK, Sheffield

Personal

September 2025 – Present

- Developed an environmental carbon flux time-series forecasting pipeline, using TEMPO-80M transformers with LSTM, XGBoost, and Random Forest baselines, achieving superior performance ( $R^2$  up to 0.741) over traditional ML models.
- Conducted transfer learning experiments across ecosystems, using zero-shot and fine-tuned transformer foundation models, which revealed a novel inverted transfer effect where cross-ecosystem predictions improved performance by ~21.6%.
- Built an end-to-end ML pipeline for environmental time-series, using Python, PyTorch, and FLUXNET data to preprocess data and train models, enabling reproducible benchmarking across multiple ML architectures and experiments pipelines.
- Performed ensemble-based uncertainty quantification and active learning, identifying high-uncertainty seasonal and meteorological regimes to prioritise eddy-covariance data collection and improve future carbon-flux model training.

### ReCoLA Landlord App

UK, Sheffield

Team Member

September 2025 – December 2024

- Designed and built a full-scale modern robust enterprise-grade Android property management application using Kotlin, Jetpack Compose, and Clean Architecture, resulting in a scalable mobile app for managing properties, tenants, and finances.
- Implemented an offline-first data layer using Room (SQLite) and the repository pattern, and integrated Google Maps (Compose) with interactive location and navigation features, delivering reliable persistence and enhanced user functionality.
- Engineered scalable reliable bi-directional cloud synchronisation with Firebase and WorkManager alongside full CRUD workflows across six core entities using clean repository abstractions, enabling real-time, consistent data management.
- Built a scalable modern reactive MVVM architecture using Kotlin StateFlow and ViewModels, enabling lifecycle-aware UI updates, clear separation of concerns, and maintainable state management across multiple application modules.

## SKILLS

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**Programming:** Java, Ruby, Python, JavaScript, HTML/CSS, SQL, Kotlin; **Tools:** Git, Gradle, WorkManager, Webpack, Excel, Optuna

**Frameworks:** PyTorch, Android Jetpack, Ruby on Rails; **Databases:** PostgreSQL, SQLite, H2; **Cloud & systems:** Firebase Sync

**Testing:** JUnit, Mockito, Statistical; **Architecture:** MVVM, REST APIs; **Interests:** Music, Arts, Cinematography, Hiking, Global Affairs