# Dasharn Dennis

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## Education

**University of Manchester** — Manchester
*BSc Computer Science - 2:1 Honours (on track)* — *Sept.2022 – June.2025*

**Queens Park Community School** — London
*Math, Further Math, Physics - A*A*A* — *Sept. 2019 – June 2021*

- Received **Merit** in **International** Pink Kangaroo Math Challenge - ranking **top 0.5% of 200,000** entrants.
- Received **3 x Gold Award** in **British Senior and Intermediate Math Challenge** - ranking **top 3% of 300,000 entrants**.
- Received **Annual Mathematics Award** for top performing maths student - ranking **top 3 in a cohort of 80 students**.

## Technical Skills

**Languages**: Python, Java, HTML, CSS, JavaScript, Git, SQL
**Frameworks**: Flask, Django, FastAPI, Streamlit, JUnit, Spring
**Libraries**: pandas, NumPy, Matplotlib, Sckit-learn, Pygame, Tkinter, socketio, requests, scipy, threading, TensorFlow

## Experience

**ERS** — London
*Underwriter Data Analyst Intern* — *July. 2023 – Present*

- **Led a data-driven project** initiative focused on identifying undervalued insurance policies within a **6-week timeframe**.
- Leveraged **SQL** to aggregate the top **10,000 data points from a 1Million-record insurance database**.
- Employed **Python** and **machine learning algorithms (XGBoost, Random forest)** to identify key factors in policy conversion rates.
- Detected **10+ opportunities** where policy conversions rates were **(>1%)** and loss ratios exceeded **(> 50%).**
- Communicated **10+ profit boosting prospects** to 3 managers with a written proposal for rate changes for insurance policies.

**Amazon** — London
*Software Engineering Discover Spring Week Intern* — *June. 2023 – June. 2023*

- Employed **object-oriented programming** principles in Java to engineer a Tree-based **algorithm** for quick word auto-completion.
- Secured a **top 3 position** out of intern cohort of 20 in an algorithms and data structure bug hunting competition using **Python**.
- Acquired a deeper understanding of **algorithm design, optimisation** and further enhancing debugging skills.

**JP Morgan** — Remote
*Software Engineering Virtual Intern* — *June. 2023 – June. 2023*

- Engineered **Java-based real-time stock price data integration for** the live trading game server application.
- Leveraged **Perspective open-source** to architect more **sophisticated data visualisations**, contributing to a seamless user experience.
- Strengthened proficiency in **real-time data integration**, and **data visualisation** using open source tools.

## Projects

**StudEats** | *MySQL, PHP, JavaScript, CSS*

- **Led 5-member team** in development of **full stack web app** for students offering time and cost effectice meal advice.
- Implemented the **Model-View-Controller architecture** in **PHP** for a modular and maintainable backend codebase.
- Applied **Agile Methodology** with Trello for task delegation, completing the web application **4 weeks ahead of schedule**.
- Secured **"Best Application Idea" award** for group project in a competitive cohort of **400+ participants**.

**Prophet - Stock Price Predictor** | *Python, Streamlit, Plotly*

- Built a **stock price forecasting app** in **Python** using **Streamlit** and **Plotly** for data visualization.
- Integrated **Yahoo Finance API** to fetch historical stock data for analysis for companies like Palantir.
- Applied the **Prophet API** for **machine learning time series forecasting**, achieving predictions with **70% accuracy**.

**SilverArrow - Crypto Trading Bot** | *Python, Keras, Sckit*

- Created a **Python**-based **cryptocurrency** trading bot, using the **Binance** API and **Pandas** for **data processing**.
- Leveraged **Keras API** to integrate **LSTM neural networks** into trading strategies, optimizing decision-making.
- Evaluated performance of machine learning trading strategy using **backtesting**, resulting in an **accuracy of 64%**.

**WiChat - Online Chat Room** | *Python, Flask, HTML, CSS*

- Designed a **real-time chat application** using **Flask and Socket.IO** with multithreading for seamless communication.
- Enacted a **Client-Server architecture with integrated WebSocket communication** enabling instant messaging to clients.
- Enhanced communication speed with **multithreading**, achieving a **(>20%) improvement** in message delivery time.