LUKE SLATTERY

COMPUTER SCIENCE GRADUATE

CONTACT

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Introduction

Highly interested in software, particularly the field of artificial intelligence. Concepts explored in a final degree project by building and fully integrating an offline RAG chatbot. Keen to pursue these concepts further along with software development and maintenance to broaden computational knowledge and gain practical experience.

EDUCATION

FIRST DEGREE: BSc Honours Computer Science (First Class)
University of Salford (2023 – 2026)

A Levels: Business Studies: C, Computer Science: C, Ancient History: C
Burnley College (2020 – 2022)

GCSEs: 9, including: Maths, English Language & Science at grade 5 (C) or above : Burnley High School (2015-2020)

Experience

One Stop HQ | Online services Intern : 7 weeks (2024), 6 weeks (2023)
Successful in a round of interviews for a 3-year scholarship with One Stop starting in 2022. Based at their headquarters in Walsall, working predominantly for their online department in doing so gaining an understanding of the pressures, standards & requirements of the workplace. Key achievements include:

- Researched potential consumer appeal, data collection and technical implementation for the development of an in-house app. Presented conclusions to management.
- Led a group to evaluate a social shopping strategy, providing a detailed analysis of its feasibility.
- Proposed digital services and appliances to be added to stores, incorporating relevant stakeholder comments.
- Overhauled and optimised legacy software for a custom printer in Visual Basic.
- Attended and influenced decision-making process in daily team meetings.
- Shadowed online team management in a variety of scenarios with suppliers and clients.
- Liaised with client businesses regarding software development, hardware suppliers & supply chains.
- Remotely aided customers through telephone calls and remote access to diagnose device issues, implementing updates and new device installations in 100+ stores.
- Studied and spent time in Technical, IT, Finance, retailers and Managerial departments.

- Provided flexible coverage during a staff shortage, extending the internship duration.

Evaluated how proposed systems or ideas impacted individual business units, gaining a greater understanding of a national business from insight into the motives, limitations, legislation, safety requirements, long term planning and management. All building upon the business fundamentals learned while studying at A level.

Programming Languages

Java	C#	PHP	HTML	CSS	Python
SQL	JavaScript	Kotlin	Swift		

Programming Experience

Explored the usability of running local offline AI chatbots on a mobile device as part of a RAG system, developing this in Android Studio's Kotlin language. This involved:

Integrated Local AI within a study companion app, which recorded to a database, then both visualised and recommended study habits back to students. Targeted students who are struggling with distraction and cognitive dysfunction.

Mastered understanding the components and cycle of a RAG model for both sending and receiving messages, alongside researching and selecting appropriate choices for the inference engine, parsers, LLM's to compare within the dissertation and other technologies used in development.

Managed performance limitations on mobile hardware, balancing the context window used by the LLM and data intake, from user and relevant app recorded data within RAM. Optimising thread processes efficiency.

Elected as proxy product owner during a group hack camp, facilitating communication with external clients on behalf of the 6-member team. Developing management experience and skills to make significant contributions.

Successfully developed a Python data masking script to censor confidential information determined by insertable JSON files.

Skill Set

Driving License	Good Communication Skills	
Resilient Problem solver	Wide business Knowledge	
Presenting	Creativity	UI/UX Design

Other Interests / achievements

Rockschool electric guitar - Merit at grades 1, 2 & 3. Bronze Duke of Edinburgh
Travelling, particularly to Rome and the Greek Islands.
Experimented with Raspberry Pi's and Arduino's for hobby computing.
Burnley College enrichment program participation:

- Computing - Game Design, Web Design using Java.
- Engineering CAD (2D & 3D), Electrical Maintenance, circuit design and Machining (Turning & Milling).