# Andrew Maxwell Robertson

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## Education

**University of Manchester**                                                                 Sept 2022 – July 2026
BSc (Hons) Computer Science with Industrial Experience - (Expected 1st Class Honours)
- Relevant Modules: Mathematical Techniques (74%), Operating Systems (80%), Data Science (75%), Machine Learning (80%)

**HSDC Alton**                                                                                       Sept 2020 – July 2022
Achieved 160 UCAS Points (A*A*A) in Mathematics (2nd/95 in Year), Further Mathematics, Computer Science

## Work Experience

**The Trade Desk**                                                            London, UK | June 2025 – Sept 2025
*Software Engineering Intern*
- Designed & developed an automated GraphQL schema analysis service in the Service Experience team at The Trade Desk, London.
- Authored a new service GraphQLServiceInsights, to provide merge request authors with automated feedback on Schema changes.
- Utilised DotNet with full development and production deployments using Kubernetes and Gitlab CI, with Open Telemetry monitoring.
- Implemented top-five most common schema violations, leading to a 13% reduction in time for schema change implementations.
- Received a return offer after achieving the highest rating in two-thirds of performance evaluation categories.

**DataAnnotations Tech**                                                           Remote | Feb 2025 – Present
*Part-time AI Prompt Engineer*
- Evaluated the correctness and efficiency of various generative AI models on diverse coding and data analysis prompts.
- Consistently ranked in the top 10% for highest-remunerating and most impactful projects on the platform.
- Utilized a vast number of tools & languages for testing, including Java Spring, Maven, C# DotNet, Python, Docker, F#, Azure, etc.

**Record Asset Management**                                              London, UK | Sept 2024 – June 2025
*Software Development Intern*
- Developed and implemented Record's internal communication system to provide real-time updates on trade orders, executions, and FX alerts, improving communication clarity to business areas and ensuring thorough compliance documentation.
- Engineered a caching strategy in C# for communication templates, reducing sending delay from 2.85s to 0.001s - a 2850x increase.
- Designed Record's communication UI to clearly display templates to internal users, using React, TypeScript & ag-Grid.
- Utilized Docker, Azure DevOps, and Terraform to containerize and deploy Quant EMC & DMC algorithmic trading services, enhancing CI/CD efficiency, improving system scalability, reducing infrastructure overhead, and supporting real-time monitoring in the cloud.

*Spring Insight*                                                                            London, UK | Apr 2024
- Developed a RESTful API to manage static currency data, utilizing Swagger for precise documentation and demonstration.
- Engineered precise xUnit tests in C# to test the functionality of critical code components providing a 22% increase in test coverage.

**Rothschild & Co**                                                                       London, UK | Jun 2024
*Equity Research Insight*
- Contributed to in-depth analyses across healthcare, automotive, and technology sectors, to providing key insights to investors.
- Performed technical analysis to determine optimal buy & sell points of the S&P500 using 50 and 100 day moving averages.

**Cisco Systems**                                                                           Alton, UK | Jun – Jul 2021
*Summer Insight - Sales and Technology*
- Analysed the functions of a Fortune 100 company with an emphasis on sales and formulation of networking solutions.
- Conducted a thorough analysis to evaluate the influence of sales on revenue expansion amidst Cisco's 47% revenue surge.

## Extracurricular Activities and Projects

**ICHack 2026 - 1st & 2nd Place Prize Winner**                      London, UK | Jan 2026 – Jan 2026
Technical skills : Kotlin, Koog Agentic Orchestration, W3W, ngrok, GitHub
- Secured 1st place in Elevenlabs and 2nd place in Jetbrains challenges at ICHack2026 out of over 700 participants, collaborating with a newly formed team to develop innovative solutions under tight time constraints.
- Initiated and led the conceptualization of an agentic emergency response system designed to alleviate pressure on emergency operators through intelligent call routing and automated information gathering.
- Architected and implemented a multi-agent orchestration system featuring five specialized agents coordinated by a supervisor agent, integrating Koog framework with an ElevenLabs live agent for real-time voice interaction.

## Technical Skills

- **Programming Languages** : C# (Intermediate), Python (Intermediate), Java (Intermediate), SQL (Intermediate), TypeScript (Intermediate), Kotlin (Beginner), C++ (Beginner), F# (Beginner), C (Beginner), Assembly (Beginner)
- **Libraries & Frameworks** : DotNet: (Fluent, Moq, OpenTelemetry), Python: (Flask, Pandas, yfinance, OpenCV, Matplotlib, Tkinter, Tekore, NumPy, Bcrypt), Java: (SpringBoot, Maven, JavaFX), React, ag-grid
- **Tools & Technologies** : Git, Kubernetes, Azure DevOps, Docker, Granfana, MySQL, Swagger, Postman, OpenAPI, Linux, Bash, Netperf, npm, yarn
- **Spoken Languages** : English (Fluent), Spanish (Intermediate - A2), French (Beginner - A1)
- **Interests** : Blues & Jazz Guitar, Powerlifting, Table Tennis, Poker, and Lattes