ALEX GARRISON

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EDUCATION

BSc Computer Science with Philosophy — Expected Jun 2028
University of Exeter — Exeter

- Achieved First Class result in first year. Modules include: Fundamentals of Machine Learning (87%), Object-Oriented Programming (87%), Data Structures and Algorithms (77%).

Sixth Form — Sep 2022 – Jun 2024
Churcher's College — Petersfield

- Achieved Computer Science A*, Religious Studies A*, Mathematics A

EXPERIENCE

Data Analyst — Sep 2024 – Jan 2025, Jun 2025 – Aug 2025
discoverIE Group plc | FTSE 250 — Guildford

- Independently scoped and delivered technical projects across Head Office functions, working directly with users and senior management within a multinational group.
- Rebuilt elements of group financial reporting around a ~20M-row dataset, automating data ingestion and creating an extensible data model and dashboards for non-technical users.
- Replaced a manual post-acquisition integration process with an automated system, adding automated reminders and progress reporting; has since been reused across 8+ acquisitions.
- Developed containerised cyber-security tooling and data pipelines to identify vulnerable misconfigurations, analyse phishing and training data, and support remediation across the group. Contributed extra functionality and bug fixes to Python libraries.
- Prototyped a fully local AI environment for sensitive company data, evaluating open-source models using company-specific tasks and deploying the selected stack on dedicated on-premise infrastructure.
- Developed and deployed an internal app for booking company EV charging slots, including automated reminders and analytics dashboard, used daily by 20+ users.
- Created clear technical documentation and a shared knowledge base to help colleagues use and maintain internal systems.

INDEPENDENT RESEARCH

Svalbard Cable Incident Reconstruction — May 2026 – Sep 2026
Independent research project | Article | Repository

- Reconstructed the unresolved 2022 Svalbard subsea cable failure and identified trawl gear crossings of the damaged cable at the time of failure.
- Integrated eight public data sources into one database, including historical vessel AIS, cable maps, bathymetry, maritime notices, and fisheries datasets.
- Built a reproducible geospatial pipeline to extract cable geometry from raster charts, clean and interpolate vessel tracks, and model trawl gear positions across a range of trawling parameters.
- Published the investigation as an interactive article to explain the incident and the analysis' findings.

ADDITIONAL EXPERIENCE

Assistant Treasurer — Sep 2026 – Sep 2027
University of Exeter Rifle Club — Exeter

- Organised range sessions and transport by coordinating driver availability.
- Built systems for compliant club ammunition tracking and eligibility declaration forms, as well as structured coaching records.

Security Council Delegate — Jun 2023
Paris International Model United Nations — Paris

- Represented the Sri Lankan delegation within the multilingual UN Security Council, including authoring the position paper.

SKILLS

Languages	Python, SQL, Bash, Java, DAX	**Infrastructure**	Linux, Docker, Proxmox, Cloudflare Workers
Development	Git, Github (Actions, Packages)	**Data / Geospatial**	DuckDB, MySQL, Power BI, Streamlit, QGIS
Agentic tooling	Codex, Claude Code, MCP	**Qualifications**	PADI Open Water Diver, clean driving licence