

# Nadim Searight

St Andrews, UK • [nadim.searight@gmail.com](mailto:nadim.searight@gmail.com) • +44 07432 575856 • [LinkedIn](#) • [GitHub](#)

## Experience

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### Edge Energy, Wiltshire

Software Engineering Intern

May -- August 2022 and 2023

- Developed a GUI-based tool in C# using the WPF .NET framework to evaluate data quality and adjust operating parameters of an orthogonal frequency division multiplexing (OFDM) downhole-surface telemetry system
- Interpreted firmware specifications to communicate effectively with embedded systems
- Developed an application to automate the process of programming embedded firmware
- Saved on handling and shipping costs by creating an embedded in-field tool servicing system using a Raspberry Pi and Python/Tkinter

## Projects

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### Wikidata Film Visualisation

- Led a group of 20 students in the creation of an interactive, graph-based web application using ReactJS and Vega combined with Agile to visualise Creative Commons data about connections within the film industry
- Planned sprints and managed task backlogs effectively to ensure a comprehensive fulfilment of project requirements, achieving a 1st class classification of the project

### Gameboy Emulator (ongoing)

- Implementing a Gameboy emulator to gain a better understanding of low-level systems programming
- Leveraged JUnit to develop unit tests, enabling early detection and correction of bugs during development

### Arbitrage Pipeline

- Leveraged Python, Django and ReactJS to develop a pipeline for identifying profitable online retail import/export opportunities between the US and the UK from a dataset of over 200,000 items
- Utilised an LLM to classify title-based product matches and product bundle quantities from titles and descriptions

## Education

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### University of St Andrews

September 2021 -- June 2025 St Andrews, UK

BSc Computer Science (Predicted 1st)

- Dean's List Award Recipient
- Coursework: Machine Learning, Databases, Data Encoding, Data Structures and Algorithms
- Rifle Club President, Captain, Police Liaison and firearms license holder

## Skills

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### Proficient

Java, C#, Python, Django, LLMs, Postgres, ReactJS, JavaScript, HTML, CSS, Git, SVN, JUnit, Agile

### Familiar

C, SQL, MariaDB, SKLearn, Optuna, WPF.NET