

Felix Leitner

3rd-Year Integrated Master's Computer Science Student - University of St Andrews

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WORK EXPERIENCE

TrackX Technology, Hillsborough, NC (USA) — *Development Intern*

JULY 2023 - AUGUST 2023

- Developed an internal .NET tool for managing remote product deployments in hospital operating rooms, which included cryptographic key generation and data encoding
- Created an expandable Python tool for exploring and visualizing SQLite datasets
- Led efforts to create a Slack-based automated notification system to track and notify of product deployment status

Loft Design, Providence, RI (USA) — *Full-Stack Developer*

SEPTEMBER 2022 - PRESENT

- Implemented a new company site using Webflow and custom CSS / JS
- Integrated web forms with third party marketing platforms
- Collected and processed product test data using Python

West Dennis Yacht Club, Cape Cod MA (USA) — *Junior Sailing Instructor*

SUMMER 2020 - SUMMER 2022

- Taught sailing and racing techniques, safety, and right of way

EDUCATION

University of St Andrews, Scotland — *Computer Science MSci (Honours)*

SEPTEMBER 2022 - PRESENT

- Started with second-year-level courses (direct entry)
- Projected for a First Class Honours degree

Classical High School, Providence, RI (USA)

SEPTEMBER 2019 - JUNE 2022

- 99.33 GPA - Ranked 6 / 260

PROJECTS

Vertically Integrated Project: "Using AI for Decision Making"

- One of 4 computer science students rewriting Conjure, a constraint programming tool, using Rust
- Responsible for model parsing and refinement, as well as encoding for SAT solvers

Vertically Integrated Project: "Dolphin Acoustics"

- Initiated and played an active role in an Object-Oriented, expandable and more user-friendly rewrite of a neural network application for classifying dolphin whistles

St Andrews Folk & Traditional Music Society — *Treasurer*

- Responsible for general and event budget management, primarily for a popular festival event with international attendance

SKILLS

Engaging, invested team member — experienced at working out tough problems with others

Quality of work — dedicated to robustness and usability

- **Networking and applications of cryptography**
- **Frontend design and development; backend architecture**
- **Node.js, Express, Jekyll, Webflow, .NET, Jupyter**
- **MS Visual Studio, Visual Studio Code, Git**

COMMUNITY / AWARDS / CERTIFICATIONS

One of 5 students statewide to advise the development of a Computer Science curriculum in Rhode Island public schools

PSIA Certified Ski Instructor

US Sailing Certified Sailing Instructor

Best Team Award in Parliamentary Debate at the RI Forensic League for — 2018/19

PROGRAMMING LANGUAGES

Python	7 years
HTML / CSS	4 years
Javascript	3 years
Java	1 year
C	1 year
Haskell	1 year
C#	< 1 year
SQL	< 1 year
Rust	< 1 year

COURSEWORK

- **Software engineering team project** — Flask, React, TypeScript
- **Movie database web app** — Node.js and Express, AJAX model
- **Reliable UDP file sharing application with loss recovery** — Java
- **Several projects using test-driven development**
- **Interpretive calculator language with file execution** - Haskell
- **Pipeline implementation using a custom thread-safe queue** — C, Valgrind
- **Gomoku AI using Minimax with an aggressive move selection heuristic** — Haskell, Gloss