

Felix Leitner

3rd year Master's Computer Science student - University of St Andrews

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WORK EXPERIENCE

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

JUNE 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)

Classical High School, Providence, RI (USA)

SEPTEMBER 2019 - JUNE 2022

- 99.33 GPA - Ranked 6 / 260

PROJECTS

Vertically Integrated Project

- One of 5 computer science students working on a research project to study and classify dolphin whistles with the help of a neural network
- Initiated and played an active role in an Object-Oriented, expandable and more user-friendly rewrite of our classification application, ARTwarp

St Andrews Folk & Traditional Music Society — *Treasurer*

- Current treasurer — responsible for general and event budget management
- Past social media representative — was responsible for public outreach and advertisement of our various events, including our annual folk festival
- Graphic designer — designs publicity materials to advertise the society and our events

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 |

COURSEWORK

- **Movie database web app** — Node.js and Express, AJAX model
- **Reliable UDP communication protocol with loss recovery** — Java
- **Network drawing application (shared whiteboard) using TCP** — 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