

# Felix Leitner

Motivated and curious computer science student eager to pursue a career in software development, possessing a broad skill set that includes AI, software engineering, cybersecurity, and web design/development. Currently a junior on track to receive a Master's degree in Spring 2026.

## WORK EXPERIENCE

### TrackX Technology, Hillsborough, NC — *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 (Remote) — *Full-Stack Web Developer*

SEPTEMBER 2022 - PRESENT

- Implementing and maintaining the 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 — *Junior Sailing Instructor*

SUMMER 2020 - SUMMER 2022

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

## PROJECTS

### Vertically Integrated Project: "Using AI for Decision Making"

- One of 4 computer science students rewriting Conjure, a constraint programming tool, using Rust
- Conjure is used by researchers in various areas to optimally solve complex combinatorial problems, and has applications in many fields including infrastructure and engineering
- 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

## EDUCATION

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

SEPTEMBER 2022 - APRIL 2026

- 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

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## SKILLS

Collaborative and committed team player, skilled in solving complex issues alongside colleagues.

Commitment to quality – focuses on creating reliable and user-friendly solutions.

Proficient in networking and the practical use of cryptography.

Expertise in frontend design and development, as well as backend architectural design.

- Node.js, Express, Jekyll, Webflow
- MS Visual Studio, Visual Studio Code, Git, Jupyter Notebook, .NET

## COMMUNITY / AWARDS / CERTIFICATIONS

Treasurer for St Andrews Folk Music Society – responsible for event budgeting

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

PSIA Certified Ski Instructor

Best Team Award in Parliamentary Debate at the RI Forensic League (2018/19)

## PROGRAMMING LANGUAGES

Python	8 years
HTML / CSS	5 years
Javascript	4 years
Java	2 years
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