

# Felix Leitner

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

## WORK EXPERIENCE

### Savant Systems, Hyannis, MA — Development Intern

JUNE 2024 - AUGUST 2024

- Adapted an existing open-source project to company requirements for an automated API integration testing tool, saving 4 weeks of development time
- Redesigned and implemented an AngularJS diagnostics tool used by installers and internal developers

### TrackX Technology, Hillsborough, NC — Development Intern

JULY 2023 - AUGUST 2023

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

### Loft Design, Providence, RI (Remote Part Time) — 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

## 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
- Recognised on the Dean's List for academic achievement in 2023 and 2024

### 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"

- Initialised work on rewriting Conjure, a tool used by researchers in various areas to optimally solve complex combinatorial problems, in Rust, with a team of 5
- Implemented model parsing and reduction rules, 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

### "Planning" Open-Source Rust Library for Minimal Action Planning

- Created a general and more extensive alternative to existing libraries, with over 600 downloads

## SKILLS

Fluent in spoken and written German

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 front-end design & development, as well as back-end architectural design

- Node.js, Express, Jekyll, Webflow, Figma

- MS Visual Studio, Visual Studio Code, Git, Jupyter Notebook, .NET

## PROGRAMMING LANGUAGES

Python	8 years
HTML / CSS	5 years
Javascript	4 years
Java	2 years
C	1 year
Haskell	1 year
MATLAB	1 year
C#	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

## COMMUNITY

President (2024-25), Treasurer (2023-24), Social Media Officer (2022-23) of my University's Folk & Traditional Music Society

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

Taught for 3 years as a sailing instructor at West Dennis Yacht Club, Cape Cod

Mentored and assessed high school students in debate skills as a varsity debater