

EXPERIENCE

Mechanical Solutions, Inc.

📅 May 2022 - Present

- Developed new features for the company's products, including realtime analysis and shaft inspection features
- Optimized analysis codepaths that improved performance of key functions nearly 10x.

Lead Developer on Touch by Touch

📅 March 2021 - Present

- Officially used by NJ's high school fencing league which consists of 50+ schools, several NCAA university programs, and thousands of fencers.
- Created a PCB-based device that plugs into fencing scoring machines, allowing automatic scorekeeping.
- Developed realtime scoring, roster management, rankings features, and more using React, Flutter, and TypeScript.

Software Intern at Agatha

📅 May 2021 - September 2021

- Created the minimum viable product for Agatha Health, a Romanian telemedicine service.
- Used Flutter to create a mobile app where patients could search for doctors and pay to video call them.
- Iterated rapidly as the sole mobile developer, learning Flutter and shipping a MVP in weeks.

EDUCATION

New Jersey Institute of Technology

📅 September 2024 — June 2028

🏊 Division I Athlete — Fencing

🏠 Albert Dorman Honors College

🎓 Majoring in Computer Science

PROJECTS

Paper replications - 2026

Conducted several paper replications and extensions of AI safety and model welfare papers, such as Anthropic's Emotion Concepts paper.

ARENA - 2026

Completed the course content for ARENA. Implemented transformers from scratch and built mechanistic interpretability, reinforcement learning, and evals pipelines.

FIE Stream Clipper - 2025

Automatically downloads livestreams of international fencing competitions from the FIE youtube channel and cuts them up into individual bouts for analysis using OpenCV.

Fencing Score Analyzer - 2024

Scrapes data from several national and international fencing scorekeeping sites and performed analysis on the effects of seeding and upsets at different age levels and divisions of top-level fencing.

AWARDS

UniHack 2021 - 1st internationally

InfoEducatie 2020 - 4th nationally

SKILLS

EXPERIENCED	React - React Native - C# - TypeScript
PROFICIENT	Flutter - Node.js - C - PyTorch - Python - C++