

# Lukas Unguraitis

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## Education

### University of Illinois Urbana-Champaign

Bachelor of Science in Computer Science + Philosophy, GPA 3.9/4

Urbana, IL

Expected May 2025

## Experience

### IT Intern

Littelfuse

May 2022 – June 2022

Chicago, IL

- Collaborated with a team to analyze competitor social media presence and Web 3.0 technologies in order to synthesize strategy recommendations
- Utilized Python to scrape social media channels and combined data with manual research to inform recommendations
- Delivered comprehensive presentation to executive team, communicating complex data analysis

### Software Development and Delivery Intern

University of Illinois Chicago - Technology Solutions

July 2022 – August 2022

Chicago, IL

- Created an inventory management interface using the MEVN stack—with MySQL instead of MongoDB, along with Express.js, Vue.js, and Node.js
- Further developed a website using vanilla HTML/CSS and JavaScript as an exploratory test

## Projects

### Course Warlock | TypeScript, SvelteKit, Tailwind, Python, FastAPI, Docker, GraphQL

January 2023

- Developed a university course search engine by combining the university's courses API with historic GPA data and professor ratings
- Worked with a team to overcome challenges like deciphering a poorly documented University API and utilizing GraphQL to create a RateMyProfessor's Python module
- Built a system for regular updating of GPA datasets and instructor ratings to allow for longevity and maintainability

### Tyche Notation | Parsing, Grammar, Tabletop Gaming, Rust

April 2023

- Designed an extensible dice notation system for tabletop gaming, enabling complex nested dice expressions and plugin functionality
- Conceptualized a comprehensive grammar to handle arithmetic operations with dice rolls. Defined system of 'manipulators', 'transformers', and 'functions', paving the way for parser implementation
- Designed the use of "dice trays" as an internal data structure to manage the intermediate state of dice expressions mid-evaluation, facilitating simpler evaluation, detailed history and efficient error handling

### mirth.cc | Astro, JavaScript/TypeScript, HTML/CSS

March 2023

- Created performant website using the Astro framework with a minimalist, utilitarian design.
- Implemented mobile-first structure and dynamic adaptation for different screen sizes, along with Turbolinks for a responsive single-page experience.
- Achieved 100/100 Google Lighthouse scores on both mobile and desktop, meeting performance, accessibility, and search engine optimization standards.
- Deployed using CI/CD techniques on GitHub Pages with GitHub Actions.

## Technical Skills

**Coursework:** Data Structures, Program Design, Discrete Math, Programming Practicum, Computational Linear Algebra, Computer Systems

**Languages:** Python, C/C++, Rust, Java, Kotlin, JavaScript, TypeScript, HTML/CSS, SQL, MySQL

**Frameworks:** Svelte/SvelteKit, Vue.js, React, Node.js, Tailwind CSS, Sass, Flask, FastAPI, Astro, WordPress

**Developer Tools:** Git, Github, Docker, AWS, Visual Studio Code

**Libraries:** pandas, NumPy, Matplotlib