

# Andrew Lester

[alester3@illinois.edu](mailto:alester3@illinois.edu) | 571-458-0104 | [github.com/AndrewLester](https://github.com/AndrewLester) | [linkedin.com/in/andrew-s-lester](https://linkedin.com/in/andrew-s-lester)

## Education:

**University of Illinois Urbana-Champaign**, *Champaign County, IL.* 2021 - 2025

BS in Computer Science, Grainger College of Engineering

Grainger College of Engineering FIRST Scholarship

**Meridian High School**, *Falls Church, VA.* 2017 - 2021

IB Diploma, GPA 4.43

Outstanding Computer Scientist Award

**George Mason University**, *Fairfax, VA.* 2019 - 2020

Completed IT Architecture Fundamentals (IT 105) and Database Fundamentals (IT 214)

Non-degree high school student

## Experience:

- [PowerSchool](#), *Software Engineer Intern.* June 2021 - August 2021
  - Implemented new API endpoints in PHP which use a linked-data schema similar to JSON-LD and also include a custom caching solution. Updated OpenAPI specs to reflect API changes.
  - Designed the backend for the API's pagination system using opaque tokens to store pagination state. Supports page size queries and sorts data automatically.
  - Incorporated a client-side cache for a frequently accessed API endpoint using IndexedDB.
- [Welcoming Falls Church](#), *Web Designer.* January 2019 - July 2021
  - Maintain a static Jekyll site with a mobile-first design. Implemented an email submission feature using Google Apps Script.

## Projects:

- [Mustang Mug](#)
  - Managed a team of 10+ students to design and implement a Svelte based web application for my high school's "Mustang Mug" cafe.
  - Hosted the app on Firebase with server-side rendering run through cloud functions. Fully fledged analytics and tracing for user tracking and application health.
  - Included a user-facing store that wraps the [MySchoolBucks](#) point of sale system and an administrator dashboard for complete configuration of the store's hours and menu.
- [Schoology Update Scheduler](#)
  - TypeScript based web application with a Python backend that allows Schoology users to schedule their updates to post at a later date. Incorporates a Redis backed queue for scheduling.
- [CalendarMixer](#)
  - Svelte web application written in TypeScript that serves a custom iCalendar URL for a user's Schoology events. Supports alerts and Google Calendar/Outlook synchronization.
- FIRST Robotics Competition (FRC) [Team 1418](#), *Team Captain / Programming Captain*
  - Collaborated on object-oriented robot programming in Python and Java and computer vision with Python using OpenCV.

## Skills:

**Proficient:** Java, Python, HTML/CSS/JS, PHP, TypeScript, C++, Svelte

**Familiar:** SQL, Redis, React, Ruby, OpenAPI, Google Cloud