

# Andrew Lester

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## 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 Science 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:

- [PSYONIC](#), *Software Developer Intern.* October 2021 -
  - Refactored and incorporated ES6 syntax in a React native application with a Bluetooth command interface.
  - Redesigned the structure for Bluetooth commands to better integrate them into the React native application as a first class service.
- [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.

## 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.
- [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 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/Flask, HTML/CSS/JS, PHP, TypeScript, C++, Svelte

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