

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:

- [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