

Andrew Lester

alester3@illinois.edu | 571-458-0104 | github.com/AndrewLester | linkedin.com/in/andrew-s-lester

Education

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

BS in Computer Science, GPA 4.0

Grainger College of Engineering FIRST Scholarship

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

IB Diploma, GPA 4.43

Outstanding Computer Science Award

Experience

PSYONIC, *Software Developer Intern.* October 2021 -

- Refactored and incorporated ES6 syntax in a React native application with a Bluetooth command line interface. Redesigned the structure for Bluetooth commands to better integrate them into the React native application as a first class service.
- Hardened command transfer success rate by implementing retrying with backoff for failures.
- Designed a CI/CD pipeline to version and deploy the app to testing groups.

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

Hack4Impact - South Side Weekly Project, *Software Developer.* September 2021 -

- Created new database schemas for storing project team data and incorporated them in the rest of the database's models. Wrote API endpoints for a NodeJS backend to expose these new models.

Mustang Mug, *Developer.* June 2021 - August 2021

- 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, *Developer.* January 2021 - March 2021

- 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.

FIRST Robotics Competition (FRC) Team 1418, *Team Captain / Programming Captain.* 2018 - 2021

- Collaborated on object-oriented robot programming in Python and Java and computer vision with Python using OpenCV.

Skills

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

Familiar: SQL, MongoDB, Redis, React, Ruby, OpenAPI, PHP