

# Andrew Lester

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## 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.

**Oct 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.

**Jun – Aug 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.

**Jan 2019 – Jul 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.

**Sep 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.

**Jun – Aug 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.

**Jan – Mar 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 / 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