

# Alan Sun

Williamstown, MA 01267 • (609) 575-7231 • as50@williams.edu • [github.com/alansun25](https://github.com/alansun25)

## Education

**Williams College** Bachelor of Arts — Computer Science and Statistics

Williamstown, MA • Expected May 2023

**Relevant Coursework:** Data Structures (Java), Algorithm Design & Analysis, Programming Languages (Java, Scala, TypeScript), Applied Statistical Modeling (R), Relational Databases (SQL), Probability, Discrete Math, Linear Algebra

## Technical Skills

**Programming Languages:** JavaScript/TypeScript, Java, Ruby, Scala, R, SQL

**Tools/Frameworks:** Git, Bootstrap, Grommet, HTML/CSS

## Experience

**Spendlab.org — UI/UX Development Intern** *JavaScript*

Remote • Jul 2020 – Present

- Owning and developing an expandable note-taking feature for Spendlab, a visual-budgeting software for the grant-funded research community.
- Authored a complete software [documentation](#) covering everything from initializing a new budget file to creating and integrating indirect rates into funding sources and expenses.
- Conducted 10 user interviews with professors and lab managers around the US to inform UI/UX design choices; resulted in direct modifications to the application's interface, including a new functionality to view projected balances at any point in time.

**Wave Learning Festival — Software Developer** *React*

Remote • Aug 2020 – Oct 2020

- Developed frontend components of redesigned student/tutor dashboards for student-led online education platform used by over 13,000 students worldwide in more than 60 countries.
- Maintained and updated the CMS used by the operations and growth teams to access and edit the database (student/course info, registration data, etc.).

**Williams College — Teaching Assistant**

Williamstown, MA • Aug 2020 – Present

- Grade problem sets, hold help hours to reinforce class topics, and lead exam review sessions.
- Courses: Calculus II (Fall '20), Applied Statistical Modeling (Spring '21)

## Software Projects

**Formulacadeemy — VandyHacks 2020, Summer Edition** *JavaScript, Bootstrap*

July 2020

[View Live](#) | [GitHub Repo](#)

- Lead developer of a full-frontend website which hosts a library of laws/formulas with corresponding calculators (math, chemistry, physics, economics).
- Created individual pages for each calculator contextualizing the formulas and providing their uses.
- Designed and deployed website and determined and executed scope for website content.

**Scientific Calculator** *JavaScript*

Jan 2021

[View Live](#) | [GitHub Repo](#)

- Developed a fully functional in-browser calculator with support for all the basic operations plus modulo, square root, exponents, and factorial.
- Designed and implemented a fluid and attractive user interface with realistic click effects.

**Etch-a-Sketch** *JavaScript*

Jan 2021

[View Live](#) | [GitHub Repo](#)

- Implemented an in-browser etch-a-sketch, with a freeform drawing functionality and randomized color patterns.
- Added grid-resizing and grid-clearing capabilities, as well as the ability to toggle draw mode with mouse clicks.

**Williams Ultimate Frisbee** *Bootstrap*

Aug 2020 – Present

[View Live](#) | [GitHub Repo](#)

- Principal developer of the official website for the Williams College Ultimate Frisbee Organization, featuring virtual recruitment efforts necessary during the COVID-19 pandemic.