

# ANDREW LI

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## EDUCATION

### Northwestern University

Evanston, IL

B.S. Computer Science, Integrated Sciences<sup>1</sup>, Math

Sept 2022 - June 2026

*Relevant Coursework:* Functional Programming, Object-Oriented Programming, Low-Level Programming

## SKILLS

Programming Languages: TypeScript, JavaScript, Java, React, Next.js, Node.js, Express.js, Python, Racket, HTML, CSS, Sass, Julia

Spoken Languages: English (native), Mandarin Chinese (native)

Other Technical Skills: DigitalOcean, Herokuapp, Git, MongoDB, Processing

Graphical Skills: Adobe Photoshop, Adobe InDesign, Adobe Illustrator, Canva

## EXPERIENCE

### Integrated Science Program

Evanston, IL

*Website Editor*

November 2022 - present

- Streamlined bug tracking to fix 20+ bugs for Northwestern's integrated sciences department website using a Notion database
- Used university Cascade system to fix bugs and implement new features

### Northwestern University Fintech

Evanston, IL

*Technical Developer*

October 2022 - present

- Working in a team of 30+ developers to build the NUFT quant structure, using modern developer practices such as GitHub, CRs, and Jenkins CI/CD pipelines.

### Tsinghua International School

Beijing, China

*Student Software Developer*

September 2017 - June 2022

- Technologies used: TypeScript, JavaScript, MongoDB, Express, React, Next, Node, Amazon AWS
- Single-handedly developed, published, and managed high school research conference's official, public-facing website and Model UN club's official conference website with over 1000 combined visitors.
- Implemented CloudFront CDN to deliver multimedia content to all users including those in China.
- Engineered Express REST API to connect to MongoDB database to handle complex registration system.
- Implemented Puppeteer API to fetch student grade history from school's gradebook.
- Maintained and debugged 3000+ lines of Swift for schedule viewing app with over 150 regular users.

*President of Science Nexus (SciNex)*

September 2018 - June 2022

- Hosted interactive science activities for over 150 participants over four years
- Worked with school administration to publish advertisements for events on display screens

*AP Computer Science A Teaching Assistant*

November 2021 - May 2022

- Teaching assistant for AP Computer Science A (Java).
- Ran weekly office hours to guide students with homework problems.

## PERSONAL PROJECTS

### SDRG TensorFlow Layer (TensorFlow, Python) (in progress)

2022

- Research project with TensorFlow to apply the SDRG renormalization technique to neural networks of 1D input to decrease loss and increase accuracy (work in progress).

### Q Learning Snake AI (Julia)

2022

- Used the GameZero.jl Julia library and Q Learning principles to create a robot to play the classic game Snake

### Scratch Card and PowerBall Console Game (Julia)

2022

- Created console game simulation of scratch card and PowerBall gambling games in Julia

### Capstone Data Parser (Python)

2022

- Developed Jupyter Notebook to parse and analyze data for freshman physics labs at Northwestern

### Personal Website (React, TypeScript)

2022

- Engineered Next.js personal website with REST API to pull project portfolio from Airtable

## AWARDS

### Conrad China National Finalist

Conrad Challenge, China Chapter

School innovation award for unique pharmaceutical product design on behalf of entire high school June 2021

### Beijing MUN Environment Commission Most Diplomatic Delegate

Beijing MUN

Demonstrated leadership and diplomacy in MUN conference with 40+ delegates from across Asia Feb. 2021

<sup>1</sup>The integrated sciences major combines math, physics, chemistry, and biology into a single major