

# Andy Ye

Atlanta, GA | +1 (630)-303-7493 | [andy9999@gmail.com](mailto:andy9999@gmail.com) | [linkedin.com/in/andy9999/](https://www.linkedin.com/in/andy9999/) | [github.com/idke64](https://github.com/idke64) | <https://andy9999.vercel.app>

## EDUCATION

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### Georgia Institute of Technology

Bachelor of Science in Computer Science

Atlanta, Georgia

Aug 2024 – Present

### Neuqua Valley High School

GPA: 4.0/4.0

1560 SAT, Summa Cum Laude, 5s on 16 APs

Naperville, Illinois

Aug 2020 – May 2024

## EXPERIENCE

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### CODEBYTES

Co-Founder, Organizer, Full-Stack Developer

Naperville, Illinois

Aug 2023 – Present

- Organized multiple inter-school programming competitions across the Chicago suburb area, attracting 60+ in-person participants from 5+ schools.
- Contributed to the design of 30+ algorithmic programming problems, along with meticulously-crafted test cases and constraints.
- Designed and created a comprehensive website, utilizing modern web technologies and techniques to streamline registration, problem submission, automated judging, and real-time contest rankings.

### HIGH OAKS ROBOTICS

Team Member

Naperville, Illinois

Sept 2022 – May 2024

- Designed and assembled several complex, competition-ready robots meshing various components together such as multi-stage lifts, advanced intake mechanisms, precision claws, and integrated visual/encoder-based odometry systems.
- Leveraged 3D printing (onShape), CNC, and Laser Cutters to manufacture intricate custom parts, ensuring seamless compatibility with existing mechanisms.
- Developed effective control algorithms for holonomic autonomous robot navigation via guided vector fields while minimizing path deviations through linearized quadratic regulators using the OjAlgo and JTransform libraries in Java.

### GNOMON LEARNING

Co-Founder, Tutor, Full-Stack Developer

Naperville, Illinois

July 2023 – May 2024

- Led 20+ team of tutors providing free educational support both online through Google Meets and in-person for K-12 students on AP courses, standardized test preparation, and core academic subjects.
- Managed and scaled tutoring operation by partnering with the Naperville and Aurora Public Library.

## PROJECTS

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### CODEBYTES WEBSITE | [codebytes.codes](https://codebytes.codes) | [github.com/idke64/codebytes](https://github.com/idke64/codebytes)

2023 – 2024

- Architected a responsive, full-stack web application serving as both an event platform and a competition portal utilizing NextJS, React, and TailwindCSS, including integrated authentication and data management provided with Firebase.
- Implemented a robust submission and judging system supported by a REST API, featuring immediate feedback, access to past submission details, and a built-in code editor that supports 10 languages.
- Deployed highly-available, self-hosted backend judging server via CloudFlare Tunnels, incorporating worker processes to handle multiple requests concurrently.
- Created a flexible Markdown-based content structure with MDX to dynamically display blog posts and general information.

### GNOMON LEARNING WEBSITE | [gnomonlearning.org](https://gnomonlearning.org)

2023 – 2024

- Engineered an innovative learning platform using NextJS, React, and TailwindCSS that provides information about tutoring services in an aesthetically pleasing user interface.
- Leveraged Firebase data management and user authentication functions, allowing for the creation and sharing of user-generated practice quizzes.

### TEAM FORTRESS 2 MOD | [github.com/idke64/shoehud](https://github.com/idke64/shoehud)

2022

- Developed a Heads-Up Display (HUD) mod for the game Team Fortress 2 by modifying in-game settings to optimize the user interface using ReScript and custom assets.

## ADDITIONAL SKILLS

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**Technical Skills:** HTML/CSS, JavaScript, TypeScript, Python, C++, Java, ReScript, Firebase, React, NextJS, TailwindCSS, Markdown, CAD, REST APIs, Git, Svelte, Sveltekit, Cloudflare, Mathematica, LaTeX

**Languages:** Fluent in Cantonese, English; Conversational Proficiency in Mandarin