

# Dylan Zhou

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## EDUCATION

**RENSSELAER POLYTECHNIC INSTITUTE(RPI)**

**Troy, NY**

*Bachelor of Science in Computer Science, GPA: 3.62*

*Expected Graduation May 2026*

- Current Course(s): Database Systems
- Completed Courses: Data Structures in C++, Foundations of Computer Science, Computer Organization, Introduction to Algorithms, Principles of Software Design, Operating Systems, Application Design Using Java
- Named to Dean's Honor List

## TECHNICAL PROJECTS

### STUDYIT

- Developed a multi-page, study-focused application using React.js and Next.js, featuring task management, timers, and an informative dashboard with real-time data.
- Integrated YouTube data API for music and Google search API for quick access to searches
- Integrated a rank system to track user progress rewarding achievements with rank upgrades
- Implemented a To-Do list and calendar system with task creation, deadline tracking, and alerts

### SHUTTLE TRACKER

- Designed and implemented a distance tracking and estimated time arrival algorithm for the shuttles
- Associated each stop with their corresponding routes by their distance away from route coordinate
- Refactored API/endpoints to distinguish current and known schedules by creating models for schedules

### LEANTO

- Developed a web browser task management application
- Styled and developed feature to view tasks depending on team selected or all tasks utilizing Preact.js for smooth user experience
- Implemented functionalities of adding/deleting tasks and adding/removing teams/projects.

### NOTTS

- Designed a user-friendly markdown note-taking Electron.js application with support for folder organization to help users keep notes organized and easily accessible
- Developed a RESTful API integrated with MongoDB, implementing full CRUD operations to handle folders and notes via HTTP requests

## SKILLS

**PROGRAMMING LANGUAGES:** C, C++, Java, Python, Verilog, Swift, JavaScript, TypeScript

**FRAMEWORK(S):** React.js, Node.js, Express.js, Next.js, Electron.js, Electron.js, Mongoose, Preact.js

**TOOLS/ APPLICATIONS:** Git, GitHub, pgAdmin, MongoDB Compass

## PROFESSIONAL EXPERIENCE

**RPI CENTER FOR CAREER AND PROFESSIONAL DEVELOPMENT**

**Troy, NY**

*Student Worker*

*January 2023– Present*

- Assisted career counselors with their tasks and students with navigating through Handshake
- Provided guidance and answers to some of the frequently asked questions that students have
- Answered phone calls from employers and parents and directed them to the right person