

# Andy Zhu

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## EDUCATION

### Rutgers University - New Brunswick, NJ

May 2027

Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 3.45/4.00

- **Honors and Certifications:** Dean's List, Java Oracle Certified Foundations Associate 2022, CompTIA Fundamentals+ 2023, Intuit QuickBooks Online Accounting Certification 2023

## SKILLS & COURSEWORK

**Software:** Java, Python, ReactJS, HTML, CSS, JavaScript, C++, Git, SQL, Linux, Microsoft Office Suite, Adobe Design Suite

**Technical Skills:** Arduino and Electronics, 3D Printing, CAD

**Coursework:** Data Structures and Algorithms, Discrete Structures 1/2, Calculus 1-4, Linear Algebra, Computer Architecture, Physics 1/2

## PROFESSIONAL EXPERIENCE

### Rutgers IEEE - VEXU

New Brunswick, NJ

President & Lead Software Engineer

September 2023 – Present

- Managed a team of 5 programmers across two teams to develop competitive robotics code in C++
- Competed at the VEX Robotics World Championships and created autonomous routines that resulted in an 89% win rate
- Instructed over 30 new members, teaching C++ and robotics programming principles
- Ranked in the top 17 internationally in the VEX Robotics World Championship in 2024 and top 25 in 2025.

### Rutgers IEEE

New Brunswick, NJ

Webmaster

April 2025 – Present

- Overhauled club website using ReactJS, TailwindCSS and Javascript
- Integrated responsive components to improve user experience and site maintainability, collaborating with board members to reflect up-to-date events and initiatives

### Innovation Foundry

Summit, NJ

Technology Instructor

June 2024 – August 2024

- Managed groups of 8 students ranging from the ages of 8-13 years old
- Taught workshops on Mobile App Development, Augmented/Virtual Reality Development, 3D Printing and Modeling, Laser Cutting, and Arduino/Electronics
- Created and designed puzzles using 3D printing and Arduino programming for escape room programs

### All Star Code

Brooklyn, NY

Summer Scholar: Cohort Representative

June 2022 – August 2022

- Selected as 1 of 30 students as Cohort representative to partner with All Star Code for teaching opportunities
- Gained experience with HTML, CSS and JavaScript and collaborated with 3 other students to create a capstone project

## PROJECTS

### Rutgers VEXU Robotics Code Library

New Brunswick, NJ

Software Engineering Lead - Robot Programming

Sept 2023 – Present

- Hosted Github Repository with team of 10, managed branches, merges and pull requests
- Created driver control and custom autonomous programming algorithms utilizing APS wheel odometry and PID

### Rutgers VEXU Team Website - [scarrobotics.com](https://scarrobotics.com)

New Brunswick, NJ

Software Engineering - Front-end Web Development

Dec 2024 – Jan 2025

- Developed Frontend using ReactJS and TailwindCSS
- Showcased Team History, Sponsorship Information, and Contact Information

### Portfolio Website - [andyzhu.vercel.app](https://andyzhu.vercel.app)

New Brunswick, NJ

Software Engineering - Front End Web Development

Sept 2024 – Present

- Created using TypeScript and React
- Implemented responsive, accessible, interactive components in a bento grid layout with smooth animations across all devices

### Rutgers IEEE Website - [rieee.vercel.app](https://rieee.vercel.app) (temporary URL)

New Brunswick, NJ

Software Engineering - Full Stack Web Development

April 2025 - Present