

# Christopher Zhang

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## EDUCATION

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**Brown University, Sc.B. Computer Science & A.B. Business Economics**

**Providence, RI**

- **GPA:** 4.00/4.00, Varsity Student-Athlete

*Expected Graduation May 2028*

- **Relevant Coursework:** Computer Systems, Program Design with Data Structures and Algorithms, Software Engineering

**Charlotte, NC**

**Ardrey Kell High School**

- **GPA:** 4.00/4.00

*Graduated June 2024*

- **Relevant Coursework:** AP Computer Science Principles and A, AP Calculus BC, AP Statistics, AP Physics 1

- **Awards and Honors:** FTC Dean's List Finalist, 3x President's Volunteer Service Award (Gold), Varsity Swim Captain, NTHS

## TECHNICAL SKILLS

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- **Languages & Frameworks:** Java, Python, C#, C++, JavaScript, React, Node.js, Express.js, HTML, CSS

- **Tools & Technologies:** Github, Git, VS Code, IntelliJ, Android Studio, Matplotlib, Supabase, MongoDB, RESTful APIs, Vercel

## EXPERIENCE

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**Mandy**

**Remote**

**Software Engineer**

*June 2025 – August 2025*

- Built an AI tool that redesigns rooms from photos and suggests Amazon products, helping users explore 1,000+ unique decor items
- Developed a full-stack app for 1,000+ image uploads and layout generation using Next.js, TypeScript, IMGBB, and Vercel
- Built user account functionality with Clerk to track preferences and deliver tailored product recommendations and chatbot responses

**Waves Swim Team**

**Charlotte, NC**

**Head Coach**

*April 2025 – July 2025*

- Led and managed training for over 150 swimmers of all age levels, designing effective practice plans to maximize performance
- Organized and coordinated 10+ swim meets, including lineup selections, race strategies, and on-deck coaching

**Techies Robotics**

**Charlotte, NC**

**Program Lead**

*March 2021 – June 2024*

- Designed and maintained the program's website, improving accessibility and engagement for 300+ students annually
- Engineered 3-wheel odometry for precise autonomous navigation, increasing movement accuracy to 95%
- Applied PID control to the robotic arm, enhancing stability and precision, boosting object-handling efficiency by 25%
- Deployed a modular object detection system with OpenCV & TensorFlow, increasing autonomous scoring efficiency by 35%

## COMPUTER SCIENCE PROJECTS

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**AI Swim Start Analyzer, React, OpenCV, MediaPipe**

*June 2025 – Present*

- Integrated MediaPipe and OpenCV for pose detection to extract joint coordinates and movement data from video input
- Delivered AI-powered real-time feedback, helping 100+ swimmers improve their start technique with personalized insights

**Chris Swimzz Website, HTML, CSS, Typescript**

*January 2024 – Present*

- Designing a responsive website for chris\_swimzz from scratch using HTML/CSS/TypeScript, attracting 500+ monthly visitors
- Integrated a Supabase-powered waitlist system to collect and manage 100+ sign-ups for the upcoming swim product launch

## EXTRACURRICULAR ACTIVITIES

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**Brown University Men's Swimming and Diving**

**Providence, RI**

**NCAA Division 1 Student-Athlete**

*September 2024 – Present*

- Balanced 25-hour training weeks, competitions, and travel while managing a full academic workload
- Ranked top 10 performer of all program history in the 100 Free, 200 Free, top 25 in 50 Free, and 100 Fly
- Broke school records in the 400 Medley Relay and 800 Free Relay

**Social Media Content Creator**

**Remote**

**Founder (@chris\_swimzz)**

*April 2024 – Present*

- Produced engaging and educational swim-related content, reaching an audience of over 20,000 followers on different platforms
- Partnered with 8+ brands, including notable names such as Arena and SwimOutlet, to create authentic promotional campaigns
- Achieved over 6 million views across content, inspiring swimmers globally and fostering a supportive online community

## INTERESTS

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- **Interests:** Piano (currently learning Liebesträume), Ping-Pong, Journaling, Chess, Skiing, Social Media, Video Editing