

Christopher Zhang

christopher_zhang@brown.edu – <https://github.com/christopherzhangbrown> – christopherzhang.dev

EDUCATION

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

Providence, RI

• **GPA:** 3.93/4.00, Varsity Student-Athlete

Expected Graduation May 2028

• **Relevant Coursework:** SWE, Data Structures and Algorithms, AI, Deep Learning, Computer Systems, Discrete Math

EXPERIENCE

Scout Motors

Charlotte, NC

AI Engineer

May 2026 – Present

- Engineered an internal MCP server linking GitHub, EKS, Argo CD, and Kargo to an LLM, cutting deployment time 75%
- Launched an AI security assistant with Copilot Studio and Jira, reducing projected support costs by \$800K annually

Mandy

Remote

Software Engineer

June 2025 – August 2025

- Built an AI-powered room redesign tool, transforming user photos into styled layouts with curated Amazon product recs
- Shipped a full-stack app for 1,000+ image uploads and layout generation using Next.js, TypeScript, IMGBB, and Vercel
- Integrated Clerk authentication to track preferences and deliver tailored product recommendations and chatbot responses

Full Stack @Brown

Providence, RI

Developer

September 2025 – Present

- Built a production Next.js platform for the Brown Brain Bee, integrating a CMS API and implementing full-text search
- Developing a full-stack publishing system for Brown Music Review with article management and automated email notifications

PROJECTS

AI Job Hunting Agent, *Next.js, TypeScript, Node.js, PostgreSQL, Cheerio, GPT-4o*

May 2026 – June 2026

- Automated job scraping across 80+ career pages with Cheerio and node-cron with real-time email alerts on new postings
- Boosted resume-to-job-fit scores by 20% via a Claude/GPT-4o generate → critique → revise loop with Zod hallucination checks
- Built a Next.js resume editor with one-click PDF export and Google Sheets logging, tracking 100+ applications end-to-end

Dating Profile Analyzer, *React, TypeScript, Node.js, Firebase, Google Gemini API*

October 2025 – January 2026

- Built a full-stack React and Node.js application that analyzes dating profiles using image scoring and AI-generated feedback
- Designed image-ranking algorithms using blur variance, brightness normalization, and smile detection-based weighted scoring
- Implemented prompt-driven Gemini AI feedback using stored personality quiz data to generate personalized profile bio recs

Travel Planner, *React, TypeScript, Node.js, Firebase, OpenStreetMap API*

September 2025 – December 2025

- Engineered an A* pathfinding system with lazy tile loading and LRU caching for 200+ mile routing across OpenStreetMap data
- Architected backend routing and trip APIs with Firebase-backed persistence to save and reload multi-day itineraries in real-time

AI Swim Start Coach, *React, TypeScript, OpenCV, MediaPipe*

June 2025 – June 2026

- 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

EXTRACURRICULAR ACTIVITIES

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
- Set school records in the 400 Medley and 800 Free relays; ranked top 5 all-time in 50 Free, 100 Free, 200 Free, and 100 Fly

Social Media Content Creator

Remote

Founder (@chris_swimzz)

April 2024 – Present

- Produced engaging and educational swim-related content, reaching an audience of over 28,000 followers on different platforms
- Partnered with 8+ brands, including notable names such as Nike and Arena, to create authentic promotional campaigns
- Achieved over 10 million views across content, inspiring swimmers globally and fostering a supportive online community

SKILLS & INTERESTS

- **Languages & Frameworks:** Java, Python, JavaScript, TypeScript, C++
- **Frameworks and Libraries:** React, Node.js, Express.js, FastAPI, Flask, NumPy, PyTorch, TensorFlow
- **Tools & Technologies:** Docker, AWS EKS, Kubernetes, PostgreSQL, Git, Argo CD, Datadog
- **Interests:** Piano (currently learning Liebesträume), Ping-Pong, Journaling, Beli, Skiing, Video Editing