

# Ryan Xing

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## EDUCATION

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### Vanderbilt University

*B.S. in Computer Science*

Nashville, TN

*Expected May 2028*

### Stony Brook University

*B.S. in Computer Science | GPA: 3.92 | Dean's List*

Stony Brook, NY

*Aug 2024 – May 2026*

- **Relevant Coursework:** Data Structures, Analysis of Algorithms, Object-Oriented Programming, Systems Fundamentals, Software Engineering, Theory of Computing, Principles of Programming Languages, Discrete Math, Probability & Statistics

## EXPERIENCE

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### AI Engineering Intern

*Canadian Youth Champions (CYC)*

May 2026 – July 2026

*Toronto, ON*

- Engineering AI/ML pipelines to automate data collection and survey analysis for a **government-funded** social research program on Canada's senior population.
- Developing internal tooling to streamline researcher workflows, reducing manual overhead across data ingestion, outreach coordination, and reporting.

### AI Research Fellow

*AlgoVerse AI Research*

May 2026 – Aug 2026

*Remote*

- Selected for a **competitive 12-week** publication-track program mentored by principal investigators from **Meta FAIR, OpenAI, Google DeepMind, Stanford, and CMU**.
- Conducting original ML research targeting publication at **NeurIPS**, one of the most prestigious peer-reviewed conferences in AI and machine learning.

### Full-Stack Developer

*Incendium Academy*

June 2024 – January 2026

*Remote*

- Developed a student progress dashboard used by **300+ monthly active users**, reducing page load time by **40%** and cutting navigation friction by **35%**.
- Shipped **50+ interactive STEM modules** and a responsive UI system that increased mobile engagement by **25%** and reduced session drop-off by **20%**.
- Designed an **MDX-based content system** on **Supabase** that enabled non-technical staff to publish curriculum updates without engineering support, eliminating a **2-3 day turnaround**.

## PROJECTS

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### ReCall | *TypeScript, React, Plasmo, Cohere API, Google Gemini, IndexedDB* | [GitHub](#) | [Devpost](#)

- Built a Chrome extension that transforms browsing history into a searchable knowledge base with **natural-language queries** and an **interactive graph** of site relationships.
- Engineered a **4-stage local ingestion pipeline** (capture, keyword extraction, embeddings, retrieval) with Cohere reranking and Gemini query understanding returning results in under **200ms** with no external data storage.

### Protocol Tracking iOS App | *Swift, SwiftUI, Firebase Firestore, Combine, Swift Charts* | [GitHub](#)

- Developed an iOS app for tracking **multi-compound protocols** with **live concentration-over-time visualizations** and validation rules preventing invalid dosage entries.
- Architected with **MVVM** and a repository layer across **6 data-access classes**, using Combine-based real-time sync to decouple UI logic from Firebase.

### Flow State | *Electron, Node.js, Claude Vision API, Claude Text API, ElevenLabs, Jest* | [GitHub](#)

- Built a macOS desktop app that analyzes screen activity in real time and delivers spoken productivity feedback via an **Electron multi-process architecture**.
- Cut vision API calls by **~40%** with idle detection, added **33 Jest unit tests**, and implemented a transparent click-through overlay with dynamic mouse event handling.

## TECHNICAL SKILLS

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**Languages:** Python, Java, TypeScript, JavaScript, Swift, SQL, C/C++, HTML/CSS

**Frameworks:** React, Next.js, Node.js, Electron, SwiftUI, Flask, Prisma, tRPC, Tailwind CSS

**Tools:** PostgreSQL, MongoDB, Firebase, Redis, Supabase, Docker, Git, Vercel, Jest