



# Zhengyang Chen

iOS & Full-Stack Developer

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Computer Science undergraduate (2027) building iOS apps. Inspiration-driven, exploring design and technology.

## Projects

### ChargeDB | Native iOS Client App Store

Co-Founder & Developer

- Built a SwiftUI client with product search, rankings, and side-by-side comparisons for a charging database backed by a 500+ member community.
- Implemented an actor-isolated image pipeline with request coalescing, ImageIO downsampling, and memory/disk caches; moved cache I/O off the main thread.
- Built cache-first catalog loading, version-based revalidation, and cached-data fallback on network errors; added WidgetKit product recommendations.

### Decode Dash | iPad Cryptography Game Student Challenge Winner

Feb 2026 - Jun 2026

Independent Developer

- Built three progressive cipher-learning levels with SwiftUI and SpriteKit; implemented drag-and-drop and cipher-wheel interactions with ObservableObject and Swift Concurrency.
- Implemented lifecycle-aware audio with AVFoundation, VoiceOver, Reduce Motion, non-color cues, and adaptive iPad layouts.

### Studex | AI Teaching Platform E-commerce: Guangdong 1st · BNBU Grand Prize

Mar 2025 - Jun 2025

Team Lead & iOS Developer

- Built an iPad student app with WebSocket note sync and OCR quizzes; supported classroom pilots.

## Internship experience

### Xinnan Information Technology

Jul 2026 - Aug 2026

Open-Source Software Development Intern · xiaozhi-esp32-server

Conversational AI backend for smart devices, combining streaming speech recognition, LLM responses, and speech synthesis via WebSocket.

- Contributed 18 merged PRs; built configuration snapshots, comparison, and rollback across backend and web/mobile clients with 6-language support.
- Resolved 3 community issues and fixed authorization flaws; all 117 management API tests passed.

Also interned:  ByteDance (Feishu) · Operations, Feb 2026;  XPeng · New Media, Jan-Feb 2024.

## Education

### Beijing Normal-Hong Kong Baptist University (BNBU)

Sep 2023 - Jul 2027

B.Sc. in Computer Science and Technology · Expected Jul 2027

### University of California, Berkeley

Jun 2025 - Aug 2025

Summer Exchange Program

## Activities

### Apple WWDC26 Special Event

Jun 2026

Special Event Participant

### Swift Coding Club

May 2026

Speaker on Swift Student Challenge and AI-assisted development; 100+ participants.

Also active:  CTL Spark Fund lead;  HDC attendee (2024/25);  Student Union & Media Office photo/editing.

## Awards & honours

### Swift Student Challenge 2026 Winner

2026

### OpenAI Codex for Open Source - Selected Contributor

2026

### Third Place, Hong Kong Track, China Collegiate Mobile Application Innovation Competition

2026

### Bronze Award, Innovation and Entrepreneurship Scholarship

2025

Other awards:  E-commerce: Guangdong First & BNBU Grand Prize (2025);  Hou Can Cup national finals &  Data Journalism: Honorable Mentions (2025);  Short Video: Second Prize (2024).

## Skills

iOS: Swift, SwiftUI, SpriteKit, AVFoundation, WidgetKit, Swift Concurrency, URLSession

Backend & tools: Python, Java, TypeScript, Next.js, WebSocket, Xcode, GitHub, Claude Code, Codex, Cursor

English: IELTS 7.0 · Mandarin: native