

Jesse (Zexi) Chen

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Computer Science

Pittsburgh, PA

Aug 2025 – May 2029

- Coursework: Functional Programming, AI & ML, Systems, CS Theory, Probability | Selected: YC Startup School '26

EXPERIENCE

Mobile Software Engineer Intern

Jun 2026 – Present

Blue Shield of California

Long Beach, CA

- Uncovered authorization vulnerabilities in a **500K+ user** Android app by building a differential security-audit platform that reconstructs session context to replay **220+** endpoints under valid and tampered credentials.
- Shipped primary navigation and revenue-critical billing/payments flow redesigns, raising task success **41 percentage points** and cutting labeling-related NPS complaints from 9% to <6%.
- Eliminated **12** SonarQube-flagged production defects through call-path tracing and regression testing.

AI Platform Engineer

Apr 2026 – Present

ScottyLabs AI Team

Pittsburgh, PA

- Launched a LangGraph/FastAPI campus AI platform at **1.4s p95** first-token latency, routing OpenRouter LLMs through MCP tools with grounded retrieval and sandboxed outputs.
- Built the React chat client with typed SSE, frame-batched rendering, and a sandboxed interactive navigation iframe.
- Implemented persistent agent memory with pgvector recall and prompt-injection-resistant remember/forget tools.

Mobile Software Engineer Intern

Dec 2025 – May 2026

Sorcea Labs: Skincare Scanner

Remote

- Shipped core features across 36 of 41 screens in a **10K+ user** Flutter app, partnering directly with CTO & CDO.
- Engineered a perceptual color engine to recommend the best shade for each user's skin tone: gamma-decodes sRGB to CIELAB, ranks shades by Delta-E with benchmarked throughput of **135K shades at 10ms p95**.
- Cut homepage load time **~75%** via parallel requests, pagination, scan-time prefetching, and a 5-minute TTL cache.

Research Intern

Jun 2023 – Aug 2024

SoftCom Lab, Cal Poly Pomona

Pomona, CA

- Developed and evaluated a computer-vision model for Parkinson's exercise-form assessment, achieving **95.4% mean accuracy** across 10 controlled video trials and co-authoring a peer-reviewed CS & IT paper.

PROJECTS

Levio: Parkinson's Care Companion | Flutter, Supabase, PostgreSQL, GitHub Actions

Jun 2023 – Present

- Founded Levio and built an offline-first sync engine with journaled writes, idempotent deduplication, parallel reads, and delta sync, achieving **zero data loss** across 100K fault-injected tests while cutting sync time **~80%**.
- Built on-device analytics linking medication timing and therapy adherence to symptom severity across **10K events**.

CMUMaps: Campus Navigation Platform | Python, ArcGIS, OpenStreetMap, Mapbox

Sep 2025 – Apr 2026

- Built the **~350ms** geospatial ETL pipeline powering CMU's campus navigation site for **700+** monthly users, transforming 15K+ OpenStreetMap nodes and ArcGIS metadata into footprints, floors, facility IDs, and entrances.

Agoriai: Anonymous Student Career Network | React, Bun/Elysia, Drizzle, PostgreSQL, D3

Feb 2026

- Architected a full-stack D3 discovery graph that surfaced relevant peers and companies by converting **~10K** relationship signals into **~2K** weighted edges at **16ms p95** API latency while preserving server-side anonymity.

SKILLS

Languages: Dart, Kotlin, Python, Java, TypeScript, JavaScript, C, C++, SQL, HTML/CSS

Technologies: Flutter, Android SDK, React, Node.js, FastAPI, LangGraph, MCP, Supabase, Bun, Elysia, Drizzle

Platforms/Tools: Docker, AWS, GCP, Firebase, PostgreSQL, pgvector, Tailwind, Git, GitHub Actions (CI/CD)