# David Xiao

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## SUMMARY

Software engineer graduating May 2026 with production internship experience and shipped projects across full-stack web, cross-platform mobile, and low-level systems. Fluent in TypeScript, React, Node.js, Python, Go, and C, focused on API performance, security, and reliable delivery.

## WORK EXPERIENCE

**Software Engineer Intern**, *Unadat*                                June 2025 – August 2025
*New York, NY*

- Decomposed a legacy PHP/JavaScript monolith into modular microservices, cutting feature delivery time by 25% across 6 production releases
- Optimized 10+ REST endpoints with input validation and query batching, reducing average response time by 15%
- Shipped a reusable React component library adopted by 3 product teams, replacing duplicate modal and form implementations
- Hardened backend endpoints against SQL injection and XSS by introducing parameterized queries and centralized input sanitization

## PROJECTS

**Kyarafit** | *TypeScript, React Native, Next.js 15, Expo, Convex, Docker*

- Architected a shared TypeScript monorepo serving a Next.js 15 web client and a React Native/Expo mobile app from one codebase
- Built offline-first persistence with SQLite and a custom Convex cloud-sync adapter, enabling full functionality without connectivity
- Automated packing-list generation with cross-item deduplication, removing manual planning steps

**OutfAI** | *TypeScript, Next.js 15, Vitest, Playwright, Vercel*

- Designed a recommendation engine scoring outfit combinations against mood, weather, and personal style signals, with explainable rationales for each pick
- Modeled wardrobe and garment data with server-side scoring logic exposed through stateless Next.js API routes
- Covered the scoring pipeline with Playwright end-to-end tests and Vitest unit coverage on ranking logic, deployed to Vercel

**ForgeArena** | *React, TypeScript, Node.js, Express.js, Firebase, Jest, Jenkins*

- Delivered a 5-layer Express backend with Firebase Auth, Firestore persistence, and WebSocket-driven real-time leaderboard caching
- Integrated Google Gemini for personalized workout plans inside a multi-agent coaching engine
- Instrumented observability with Winston and Sumo Logic across 35+ log points, reaching 95% test coverage

**RandCompile** | *C, GCC Plugin, Linux Kernel, QEMU/KVM*

- Extended a GCC compiler plugin hardening Linux kernel binaries through string encryption, pointer obfuscation, and ABI randomization
- Validated defenses against Katana and HyperLink forensic tools in QEMU/KVM, blocking process enumeration on all hardened variants
- Achieved sub-5% runtime overhead with partial hardening while preserving full kernel boot and module compatibility

## EDUCATION

**CUNY Hunter College**, *Bachelor of Arts in Computer Science — Dean's List*                New York, NY
*Expected May 2026*

## SKILLS

**Languages**: TypeScript, JavaScript, Python, Go, C, C++, SQL, PHP, Bash
**Frameworks**: React, React Native, Next.js, Node.js, Express.js, FastAPI, Expo
**Databases**: PostgreSQL, MySQL, SQLite, Convex, Firestore (NoSQL)
**Testing & DevOps**: Vitest, Jest, Playwright (E2E), Docker, GitHub Actions, Jenkins, GCP, Vercel, Heroku, Linux