Steven Yu

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EDUCATION

Cornell University   Ithaca, NY
Bachelor's, Computer Science   *Aug. 2023 – May 2026*
- GPA: 4.14
- Coursework: Object-Oriented Programming & Data Structures, Discrete Structures, Functional Programming, Digital Logic & Computer Organization, Analysis of Algorithms, Database Systems, Machine Learning, C++
- Activities: Teaching Assistant for Digital Logic & Computer Organization and Trends in Web Dev
- Honors and Awards: Cornell Bowers CIS BOOM 2024 Award Recipient, Switch the Pitch Hackathon First Place

EXPERIENCE

Software Engineer Intern   May 2024 – Aug. 2024
Shmood   *New York, NY*
- Developed the Figma plugin, backend edge functions, and Figma OAuth integration to upload and sync Figma files with Shmood boards.
- Refactored the app architecture to eliminate wasteful reads by centralizing the data fetching logic into React hooks, improving the Largest Contentful Paint by 42% and the Speed Index by 47% (Google Lighthouse metrics).
- Implemented realtime data synchronization and optimistic updates for a more dynamic and fluid experience.

Undergraduate Research Assistant   May 2024 – Present
Cornell Zhang Research Group   *Ithaca, NY*
- Researching systolic arrays and their applications for accelerating machine learning (DNN) workloads.
- Analyzing the architecture and benchmarking the performance of Gemmini DNN accelerators using C and GTKWave.
- Extending Gemmini with low-bitwidth LUT-based operations to improve the efficiency of DNN workloads.

Full-Stack Developer & Teaching Assistant   Oct. 2023 – Present
Cornell Digital Tech & Innovation (DTI)   *Ithaca, NY*
- Building as a developer on QueueMeIn, an office hours platform used by 3000+ students and faculty at Cornell.
- Developed feature that allows professors to export and analyze data from office hours sessions.

PROJECTS

Ritu App | *Swift, SwiftUI, Python, FastAPI, Twilio, Figma, Firebase, DigitalOcean*   Oct. 2023
- Created a Python REST API and SwiftUI iOS app that sent targeted weekly pest/weather risk predictions to farmers through the app and SMS notifications via Twilio within 24 hours.
- Won First Place in Cornell Johnson High Tech Club's Switch The Pitch Hackathon with $1500 award.

CUSoon Web App | *TypeScript, React, Next.js, TailwindCSS, Express.js, Node.js, Firebase*   Oct. 2023
- Created a full-stack web app hosted on Vercel that uses web scraping to aggregate bus ticket data to allow students to compare and find the best bus tickets and times (cusoon.vercel.app).

SchoolVerse App | *Swift, SwiftUI, Python, FastAPI, Figma, Firebase, DigitalOcean*   Dec. 2021 – Dec. 2023
- Created an app to manage all aspects of student life (shoolverse.app).
- Built the iOS app using SwiftUI and Firebase; engineered clean app architecture with the MVVM design pattern.
- Used web scraping and external APIs to combine and sync data from multiple websites/platforms into one app.
- Achieved 80% adoption rate at Hackley School and won $1200 Russ Hogg Grant to fund development.

DevVerse App | *Swift, SwiftUI, OAuth*   May 2022
- Built a SwiftUI iOS app for busy developers that interfaced with the GitHub API and GitHub OAuth via Alamofire and Swift async/await.
- Won First Place in LexHack 2022 and completed the hackathon project within 24 hours.

SKILLS

Programming Languages: TypeScript, JavaScript, Swift, Python, Java, HTML/CSS, OCaml, Verilog, C
Frameworks/Tools: React, Next.js, Express, Node.js, Hono, Deno, SwiftUI, Flask, FastAPI, PyTorch, TailwindCSS, Firebase, Supabase, Git/GitHub, Figma, SQL, PostgreSQL, Docker, DigitalOcean, Linux
Languages: English, Chinese