

# Shengle(Frank) Dai

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## EDUCATION

### Cornell University

Ithaca, NY

Bachelor of Science in Computer Science, Cumulative **GPA: 4.19**

Aug. 2023 – May 2027

- **Achievements:** USACO Platinum, AMC top 5%
- **Coursework:** OOP and Data Structures, Backend Development, Functional Programming, Computer Organization, Systems Programming, UNIX Tools and Scripting, C++ Programming, Machine Learning, Algorithm Analysis, Database Systems, Computer Networks

## EXPERIENCE

### Apple

May 2025 – Aug. 2025

Software Engineering Intern

Beijing, China

- Re-architected a legacy Excel+Wrike workflow into an internal **Next.js/Express/PostgreSQL** portal used by **80+** staff managing **1200+** business cases, **cutting intake time by 35%**; eliminated manual hand-offs.
- Implemented **JWT auth** and **RBAC** with fine-grained, modular permission logic across **6 business roles**.
- Built an **n8n AI workflow** that summarizes business cases; **reduced manager review cycle time by 40%**.
- Improved system reliability with **OAuth integration**, **SMTP notifications** (p95 latency: 8s), **optimistic concurrency control (OCC)**, **ACID audit logging**, and **Git-based** history records.

### Cornell Digital Tech & Innovation (DTI)

Sept. 2024 – Present

Full-Stack Software Development Engineer

Ithaca, NY

- Collaborated in an **80-member agile team**, shipping semester-based MVPs and reviewing **2+ PRs per sprint**.
- Onboarded and **mentored** new members with comprehensive **Notion docs**, accelerating ramp-up productivity.
- Developed **LLM prompts** for syllabi deadline extraction (**97% accuracy**), authentication flows with **Firebase** and **Supabase OAuth**; integrated **Supabase real-time** to reduce stale writes with live concurrent updates.

### Cornell Bowers CIS

Aug. 2024 – Present

Teaching Assistant

Ithaca, NY

- Mentored **40+** students on **2K+ line software projects** in core courses (Machine Learning/Data Structures).
- Designed **automated testing suites/grading scripts** in **Python/OCaml** for 10+ programming assignments.

## PROJECTS

### EzModel | Golang, WebSocket, Supabase, Svelte, MCP

Sept. 2024 – Present

- Led a **4-engineer team** to build a **database designer** that auto-generates **SQL schemas and CRUD APIs**.
- Designed a **low-latency Golang backend** (<80ms in-region) with **WebSocket** for real-time schema editing.
- Developed an **MCP server** that analyzes project context and provides suggestions on tables/keys/indexes.
- Established a **CI/CD** pipeline with **GitHub Actions** for automated unit and integration tests and deployments.

### IthacaTraveller | Python, Flask, SQLite, Docker, Google Cloud

Nov. 2023 – Dec. 2023

- Engineered the **backend system** for an Ithaca travel guide app, winning the **Best Backend Award** (among 100+ students) at Cornell Engineering's first-year hackathon for robust design and reliability.
- Implemented the **Flask** backend with **SQLAlchemy/SQLite** data models and **RESTful APIs**, integrated a real-time weather API, containerized with **Docker**, and deployed on **Google Cloud Platform**.

## TECHNICAL SKILLS

**Languages & Frameworks:** Python, Java, JavaScript/TypeScript, Golang, C++, SQL, Node.js, Express.js, Flask, React, Next.js, Svelte, TailwindCSS

**Databases & Cloud:** PostgreSQL, SQLite, Firebase, Supabase, Docker, AWS, GCP, DigitalOcean

**Tools & Practices:** Git/GitHub, CI/CD, Jest, Testify, RESTful APIs, WebSocket, JWT, OAuth