

Daniel Liao

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EXPERIENCE

PayPal, Chicago, Illinois

Software Engineer Intern, (May 2026 – August 2026)

PayPal iOS app enabling approved credit card users to add virtual cards to Apple Wallet

- Maintained card spending by 15% and customer lifetime value by driving virtual card wallet adoption.
- Engineered virtual card wallet integration by adding GraphQL APIs and efficient client-side user data caching.
- Reduced launch risk using Statsig feature flags and Datadog observability monitoring.
- Built scalable SwiftUI flows using Bazel, MVI, TCA, CLEAN Architecture, and dependency injection.

PALANTIR TECHNOLOGIES, New York, NY

Software Developer Fellow, (November 2024 – January 2025)

Palantir AIP, a data-driven platform replacing helicopters using drones to deliver emergency medication to mountains.

- Reduced completion time for life-threatening drone user requests by 30 seconds by simplifying the request views.
- Built and optimized backend data pipelines in Java and TypeScript to allocate emergency medical resources.
- Designed SQL data models and queries supporting real-time resource allocation under high-pressure.
- Improved system performance and reliability by caching geospatial metadata, reducing memory pressure.

SCAI ENGINEERING, Tempe, AZ

Software Engineer Intern, (January 2024 – May 2024)

Attendance Management System, a backend software automating student attendance recording.

- Delivered attendance tracking for 80,000+ students via Canvas API and ESP32 with JSON-based services.
- Automated 38 hours/semester of manual attendance using Java Spring Boot and ESP32 card readers.
- Enabled users with zero security breaches by implementing OAuth2 and Spring Security.
- Designed PostgreSQL database schema using Hibernate ORM with 7 entity classes.
- Implemented with 6 Spring Data JPA repositories using Criteria API for dynamic queries.
- Developed REST APIs using Spring Boot and Spring MVC across 2 controllers.

EDUCATION

Arizona State University, Expected May 2027

Bachelor of Science in Computer Science, Minor in Dance

Relevant Coursework: Database Management, Introduction to Machine Learning

PROJECTS

Asuranked, XXXX Users in 3 Days | Python, React, TypeScript, Selenium, MongoDB, GCP, Docker

- Built and scaled a React/Next.js app ranking LinkedIn profiles, attracting thousands of users in three days.
- Blocked cyber attacks by replacing a broken defense system with a Redis rate limiter.
- Generated 18,000 LinkedIn impressions and migrated production data to Firestore.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL

Frameworks: Spring Boot, Spring MVC, Spring Security, Hibernate, Gradle, JUnit, Mockito

Other: MySQL, REST APIs, OAuth2, JSON, XML, PostgreSQL, MongoDB, Redis, Microsoft Azure, Linux, Postman

Concepts: Backend, Fullstack, Frontend, Software Development, Web Services, Data Analytics, Machine Learning, Networking, CI/CD, Microservices, DevOps, Automation, Agile, Data Structures and Algorithms, Databases, Cloud Service, Quality Assurance, Distributed Systems, Version Control, Object-Oriented Programming