

David Joon-Ha Lee

djlee46341@gmail.com • 945-209-3157 • github.com/djlee46341

EDUCATION

University of Chicago

B.S. Computer Science, GPA 3.54

Chicago, IL

Expected June 2027

Awards: Odyssey Scholar, QuestBridge College Match Scholar, Enrich Scholar (2025), Wayfair Early Leader (2026)

EXPERIENCE

Wayfair

June 2026 – August 2026

Software Engineering Intern

Boston, MA

- Led development of automated dead-letter recovery for a fulfillment service processing **~4.9M events/day** (**~57/s** sustained, **~140/s** peak), replacing manual replay of **~1,300** daily failures with Redis retries, Kafka replay, and GCS archival.
- Implemented at-least-once delivery with **6** retries over **~47 minutes**, broker acknowledgment before dequeue, and **50-message** async batches supporting **~36K dispatches/hour** under a **30s** distributed lock.
- Provisioned GCS lifecycle policies in Terraform (**90-day** Coldline, **365-day** retention), integrated Memorystore into Kubernetes through Vault, and exported **11** queue-health metrics to Datadog.
- Shipped zero-downtime across **11 PRs** and **3 repos** behind Unleash feature flags; verified concurrency, Redis failure, and retry exhaustion with **118 unit tests** while remediating SonarQube and CodeQL findings.
- Built an agent-assisted macOS onboarding workflow spanning **18 repositories** and **3 JDK versions**, automating installation, authentication, registry setup, and build verification.

Toyz Electronics

June 2025 – September 2025

Full Stack Developer Intern

- Redesigned platform UIs and integrated interactive ed-tech, marketplace, and learning components to improve performance and accessibility; translated user testing and analytics into product strategy presented directly to the CEO and CTO.

University of Chicago Fitness Center

September 2024 – Present

Fitness Center Attendant

Chicago, IL

- Maintain facility safety and reduce equipment downtime through inspections, organization, and incident reporting.

PROJECTS

Player & Match Tracker for HLTV | *JavaScript, Chrome Extensions API, HTML/CSS* [GitHub](#) | [Chrome Web Store](#)

- Built a dependency-free Manifest V3 Chrome/Edge extension that tracks Counter-Strike teams and players, detects upcoming matches and live streams from HLTV, and delivers deduplicated in-page or desktop alerts with preference-based stream launching.
- Architected a replaceable HLTV parser and browser-independent core, persisted alert state across service-worker restarts, and validated matching, status, parsing, and delivery behavior with **85 assertions** across **6 test suites**.

Rabble | *Django, Django REST Framework, pytest*

[GitHub](#)

- Built a full-stack social platform spanning users, communities, threaded posts, comments, and direct messaging across **10+** interlinked relational models.
- Implemented a DRF API for post and comment CRUD, backed by pytest and factory_boy coverage of API and view behavior.

ACTIVITIES

Realized Gaming Tools

August 2026 – Present

Founder & Team Lead

[Website](#)

- Lead development of gaming tools, including the HLTV tracker; onboard contributors to AI-assisted GitHub workflows, review shared-repository code, and coordinate QA testing.

University of Chicago Robotics

October 2024 – Present

Combat Robotics Team Member

Chicago, IL

- Designed mechanical subsystems for the team's competition robot and contributed to a lightweight-class build for collegiate events including Robobrawl and NHRL.

TECHNICAL SKILLS

Languages: Python, Java, C#, JavaScript, SQL

Frameworks: Django, Django REST Framework, FastAPI, Spring Boot, Spring Framework, Vue.js, React, Node.js

Infrastructure: GCP, GCS, Kubernetes, Docker, Docker Compose, Terraform, Vault, Redis, Apache Kafka, Buildkite CI, Datadog

Testing & Tools: JUnit 5, Mockito, Testcontainers, Karate, pytest, SonarQube, Git, Linux, JIRA