

# Winson Dong

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## EDUCATION

### Boston University

B.A. in Computer Science (CS)

Boston, MA

Sep. 2022 – Dec. 2025

- **Selected Coursework:** Algorithms, Distributed Systems, Computer Systems, Artificial Intelligence, Full Stack Development, Probability in Computing

## SKILLS

**Languages:** Python, Java, Go (Golang), C++, C#, TypeScript/JavaScript, HTML/CSS, SQL

**Frameworks & Libraries:** React, Next.js, Node.js, Django, Flask, FastAPI, Express, Pandas, Tailwind CSS, MUI

**Databases & Tools:** PostgreSQL, MySQL, SQLite, MongoDB, Docker, AWS, GCP, Git, Clerk

## WORK EXPERIENCE

### BU Spark

Boston, MA

Full Stack Engineer

Sep 2025 – Dec 2025

- Built a production-grade artifact upload, metadata enrichment, admin review, and search pipeline for a Khmer statutory research platform, supporting **600+ images** and **200+ verified matches** used in active provenance investigations.
- Built an end-to-end image ingestion and approval workflow using **Next.js API routes**, **Supabase Postgres RPCs**, and **object storage**, promoting vetted uploads into normalized search tables.
- Implemented authentication-gated admin tooling, global upload rate limiting, and moderation controls using **Clerk session claims**, supporting **multi-role access** across **10+ admin workflows** while preventing abusive submissions.

### Hidden Laier

Remote

Software Engineer Intern

Sep 2025 – Dec 2025

- Engineered an AI-powered employee engagement platform integrating **Vertex AI** and **D3.js** force simulations, analyzing **50+ employee nodes** and **hundreds of interaction signals** to predict attrition risk.
- Built a full-stack SaaS system with streaming chat APIs, multi-channel workflows, and analytics dashboards, shipping **7+ feature modules** and sustaining **sub-100ms API response times** under concurrent usage.

### City King Buffet

Mount Sterling, KY

Software Engineer (Contract)

July 2025 – Aug 2025

- Built a responsive full-stack restaurant site using **Next.js (React)** and **Django REST**, serving daily menu traffic with dynamically managed business content.
- Deployed an AI-driven support chat using **OpenAI's API**, **LangChain**, and a **Chroma** vector store, answering **100+ customer queries** across menu, pricing, hours, and FAQs.

## PROJECTS

### Wallet Wrapped

Oct 2025

- | Next.js + Gemini AI + MongoDB
- Built a responsive **Next.js 14 + TypeScript** web app integrating the **Capital One Nessie API** to process **real-time transaction data** across **multiple accounts**.
  - Developed an analytics engine with **10+ algorithms** for spending patterns, merchant analysis, and trend tracking.

### All In

May 2025

- | MERN Stack + Firebase
- Built and deployed a full-stack **MERN** application on **Railway**, **Firebase Hosting**, and **MongoDB Atlas**, supporting **user authentication, profile management, and game communities**.
  - Implemented game session CRUD, invitation workflows, and real-time state updates using **Node.js**, **Express**, and **MongoDB schemas** across **4+ core dashboard modules**.

### Boston Shooting Data Dashboard

Apr 2025

- | React + TypeScript
- Built a **React/TypeScript** dashboard to fetch & filter 2,000 Boston shooting incidents by year, neighborhood, type, gender, race, and multi-victim status.
  - Used **Leaflet+GeoJSON** for neighborhood selection, **Styled-Components** for views, and **Chart.js** for trend visualization.

## LEADERSHIP

### Lambda Chi Alpha Fraternity

Boston, MA

Recruitment Chair

Sep 2024 – Dec 2024

- Managed recruitment by introducing new events and outreach strategies, leading a team of 8 members, catalyzing a **40% increase** in prospective member participation.
- Introduced and promoted a referral program, leading to a **15% increase** in quality candidate applications.