Winson Dong

Software Engineer | Full-Stack & Distributed Systems

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EDUCATION

Boston University   **Boston, MA**
B.A. in Computer Science (CS)   *Dec. 2025*
- **Selected Coursework:** Algorithms, Distributed Systems, Computer Systems, Artificial Intelligence, Full Stack Development, Probability in Computing

SKILLS

Languages: Python, Java, Go (Golang), 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*
- Collaborated with the **Khmer Statuary Project (KSP)**, partnering with a **University of Cambridge** research student to develop a modular full-stack portal for Cambodian artifact provenance research.
- Implemented secure submission systems including **email verification**, **CAPTCHA validation**, and **admin moderation tools** to ensure high-quality data integrity.
- Designed standardized **metadata schemas** and scalable backend architecture with **ML-ready FastAPI endpoints** for future CNN image similarity models.

Hidden Laier   **Remote**
Software Engineer Intern   *Sep 2025 – Dec 2025*
- Engineered an AI-powered employee engagement platform integrating **Vertex AI** for personalized outreach and **D3.js** force simulation visualizations, processing **50+ employee nodes** with sentiment analysis predicting attrition risk.
- Developed a full-stack SaaS application with streaming chat APIs, multi-channel workflows, and analytics dashboards, delivering production-ready solution with **7+ feature modules** and **sub-100ms API response times**.

City King Buffet   **Mount Sterling, KY**
Software Engineer (Contract)   *July 2025 – Aug 2025*
- Built a responsive full-stack restaurant site with **Next.js (React)** for the UI and **Django REST** for the API, displaying dynamic menu data and business info.
- Powered an AI-driven support chat using **OpenAI's API**, **LangChain**, and a **Chroma** vector store to give customers instant, context-aware answers to menu, pricing, hours, and FAQ queries.

PROJECTS

Wallet Wrapped [↗] | *Next.js + Gemini AI + MongoDB*   **Oct 2025**
- Built a responsive **Next.js 14 + TypeScript** web app integrating **Capital One Nessie API** to show real-time financial data.
- Implemented **AI-powered financial insights** using **Google Gemini 2.5** with JSON validation for personalized analytics.
- Developed an analytics engine with **10+ algorithms** for spending patterns, merchant analysis, and trend tracking.

All In [↗] | *MERN Stack + Firebase*   **May 2025**
- Developed and deployed a full-stack **MERN** platform on **Railway**, **Firebase Hosting**, and **MongoDB Atlas**, supporting authentication and game community features.
- Implemented game management, invitations, and real-time updates, enhancing user experience and data reliability.

Boston Shooting Data Dashboard [↗] | *React + TypeScript*   **Apr 2025**
- 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.