

Winson Dong

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EDUCATION

Boston University

Boston, MA

B.A. in Computer Science (CS)

Expected May. 2027

- **Selected Coursework:** Python, Java, Combinatoric Structures, Geometric Algorithms, Computer Systems, Analysis of Algorithms, Probability in Computing, Artificial Intelligence, Full Stack Development, Distributed Systems

SKILLS

Languages: Python, Java, JavaScript/HTML/CSS, TypeScript, SQL

Frameworks & Libraries: React.js, Next.js, Node.js, Django, Flask, Express, Pandas, LangChain

Databases & Vector Stores: PostgreSQL, MySQL, SQLite, MongoDB, Chroma

Cloud & DevOps: Google Cloud Platform, AWS, Docker, Firebase, Git, CI/CD

Tools & Practices: TDD/BDD, Unit Testing (PyTest, Jest), OCR, RAG, LaTeX/Overleaf, MS Office Suite

WORK EXPERIENCE

Hidden Laier

Remote

Software Engineer Intern

Sep 2025 – Present

- Developed and maintained full-stack features by building **secure APIs**, designing **scalable database schemas**, and integrating **backend services** with **frontend interfaces** to support seamless user experiences.
- Improved system **reliability** and scalability by implementing **testing pipelines**, documenting workflows, and contributing to **sprint planning**, **code reviews**, and **cross-team discussions**.

City King Buffet

Mount Sterling, KY

Freelance Web & AI Integration Developer

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

Oct 2025

- | Next.js + Gemini AI + MongoDB
- Built a responsive **Next.js 14 + TypeScript** web app integrating **Capital One Nessie API** to visualize personalized financial insights with real-time transaction data.
 - Implemented **AI-powered financial insights** using **Google Gemini 2.5 Flash API** with structured JSON schema validation to generate personalized spending narratives and analytics.
 - Developed comprehensive financial analytics engine with **10+ insight algorithms** including spending patterns, merchant analysis, no-spend streaks, and trend calculations.

All In

May 2025

- | MERN Stack + Firebase
- 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

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.

Airbnb Price Prediction

Apr 2025

- | Python + Scikit-Learn + Pandas
- Developed an end-to-end pipeline to predict NYC Airbnb prices with a **Random Forest** regressor $R^2 \approx 0.71$.
 - Cleaned & merged **28,000** listings, engineered features (amenities, location, host/review metrics), log-transformed price, and plotted top feature importances.

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.