

JONATHAN CHEN

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EDUCATION

Purdue University

West Lafayette, IN

B.S. Data Science & Artificial Intelligence

Expected: May 2030

Awards/Honors: Lilly Scholar (Full Tuition Merit Scholarship), Coca-Cola Scholar Finalist, National Merit Scholar

Activities: The Data Mine, Lilly Purdue Innovation Institute, Cornerstone Christian Fellowship, Toastmasters

EXPERIENCE

Walmart Global Tech

Bentonville, AR

Technical Program Management Intern

Jan - Apr 2026

- Engineered a full-stack tracking dashboard using Python, TypeScript, and React to automate global portfolio intake and dependency tracking, integrating Jira and Confluence REST APIs
- Evaluated internal TPM tooling including Jira/Confluence MCP workflows, and new AI agents for development (CodePuppy/Wibey)

Institute for Systems Biology (ISB), Baliga Lab

Seattle, WA

Research Intern

Summer 2025

- Developed R pipelines to analyze high-throughput phenotypic microarray and drug-response data; identified key metabolic vulnerabilities in 20 CRISPRi strains of *Mycobacterium tuberculosis*, informing drug regimen development
- Presented research findings to institute; assisted K-12 STEM curriculum development with Systems Education Experiences team

City of Bentonville & Industry Partners

Bentonville, AR

Intern

Aug 2025 - May 2026

- Contracted by the City of Bentonville to engineer predictive traffic machine learning models in Python (Scikit-learn, Pandas, NumPy) using municipal time-series sensor telemetry, reducing peak-hour corridor delays from LOS E (severe congestion) to LOS C (stable flow).
- Architected an enterprise RFID-based tracking system to enhance product visibility across Walmart stores, presented to Walmart and Zebra Technologies executives

Sun Yat-sen University of Medical Sciences, Li-Meng Feng Lab

China

Wet Lab Research Assistant

May 2025

- Generated primary data and performed RT-qPCR, Western Blot, DNA/RNA extraction, gel electrophoresis, and X-ray film imaging to support cancer research team

Etsy: LotusandBambooCrafts

2023 – Present

Small Business Co-Founder

- Manage personalized oriental-themed gift store; Etsy Star Seller status; generated \$9,000+ profit from 600+ sales

PROJECTS

Radically - Kickstarter Launch

- Contracted to design and develop a novel Chinese learning web app built with React, TypeScript, Supabase, Zustand, and Framer Motion, using AI-assisted MCP and wireframe-to-code workflows
- Designed with Figma/Paper Design wireframes and prototypes; conducted user testing

GuitarCade - HogHacks 1st Place

- Developed an acoustic-fingerprinting algorithm for a gamified guitar-learning web app, calibrating to each instrument's unique spectral profile to trigger game actions from real-time audio
- Used FFT/chroma analysis and cosine similarity with Python, NumPy, and PyAudio; integrated a React/Three.js interface through WebSockets and the Web Audio API

SKILLS

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

Frameworks/Libraries: React, Next.js, Scikit-learn, OpenCV, NumPy, Pandas, tidyverse, ggplot2, Three.js

Tools: Git/GitHub, WebSockets, Supabase, Agile (Jira, Confluence), MCP Workflows, Power BI

Product/Design: Figma, Paper.design, UI/UX Wireframing, Prototyping, Adobe Creative Cloud, DaVinci Resolve