

# Connor Underwood

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## EDUCATION

### PURDUE UNIVERSITY

West Lafayette, IN | Expected Graduation: May 2026

- B.S. Computer Science & Data Science with a Minor in Finance: Concentration in Software Engineering
- Relevant Coursework: Data Structures & Algorithms, Software Engineering, Machine Learning, Compilers, Architecture

## RELEVANT EXPERIENCE

### Software Engineer Intern, *Google* | Java, Swift, Blaze

August 2025 - Present

- Optimized AI mode search latency within Google's iOS mobile app via a Java microservice that preprocesses input queries
- Enhanced iOS mobile app by creating a unified transitions API for iOS developers in Swift, standardizing navigation patterns

### Data Science Intern, *Microsoft* | Python, Agentic AI, Redis

May - August 2025

- Developed a text2SQL agentic AI model using Microsoft Autogen with ~3000 daily active users across Microsoft internal
- Fine-tuned o3, 4o, & Claude Opus LLM agents via synthetic training data + integrated semantic ranker for RAG performance

### Project Management Intern, *Wabash National* | Python, Azure DevOps

August 2024 - December 2024

- Lead a team of 16 undergraduate and graduate students through the implementation of a customer-facing AI chatbot
- Augmented GPT-4o with company data provided in Azure blob storage through Retrieval Augmented Generation (RAG)

### Data Scientist Intern, *Amazon & Whole Foods Market* | Python, Redshift SQL

June - August 2024

- Spearheaded the development of an evergreen dashboard for the Direct Ship E-Commerce channel; presented to the CEO
- Leveraged Amazon search data to gauge optimal buy windows for holiday assortment, quantifying a 309k sales entitlement

### Software Engineer Intern, *Purdue University* | Python, Next.js, TypeScript, Flask, Tailwind CSS

May 2024

- Deployed a computational model for navigators with 8 other researchers as part of a research and development internship
- Built a robust REST API with Flask to communicate with our NextJS UI, increasing stakeholder CX and productivity

### Data Scientist Intern, *Finish Line* | Python, PySpark, PyTorch

June 2023 - April 2024

- Implemented a robust inventory forecasting algorithm, resulting in -5% QTD vs. LYQTD decrease in item-not-found rates
- Managed the design & development of an order-routing model, reducing delivery times by 30% in Direct Ship fulfillment

## PERSONAL EXPERIENCE

### WalkOff, *Startup* | Golang, NextJS, Typescript, Python, Docker, Redis, MongoDB

August 2024 - December 2024

- Built an AI fantasy sports web-app designed with intelligent player recommendations and automated lineup optimization
- Unified analytics dashboard combining draft grades, trade analysis, and player performance metrics across multiple leagues

### Lead Undergraduate Researcher, *Purdue University* | Python

August 2022 - May 2024

- Provided cadence based analytics for 6 Lafayette community leaders, identifying various KPI's for housing affordability
- Pioneered an automated Python web scraper, using Selenium & BeautifulSoup to extract data from 5000+ homeowners

## SKILLS

- Programming Languages: Python, Java, Golang, Swift, Objective-C, Javascript/Typescript, C/C++
- Technologies & Frameworks: AWS (Redshift, S3, Lambda), Microsoft Azure (DevOps, AI, Data Lake), Google (Big Query, Vertex AI), Apache (Spark, Hadoop, Flink), React, Springboot, Next, Express, Docker, MongoDB, Redis, Kafka, Gorilla
- Concepts: Machine Learning, Data Science, Data Analysis, Software Engineering, Web Frameworks, Databases, Full stack, Frontend, Backend, Cloud Computing, Multithreading, Embedded Systems, REST API, Statistics, Probability, NLP

