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, *Google* | Swift, Java   July 2026

- Improving AI Mode @ Google Search

Software Engineer Intern, *Google* | Java, Swift, Blaze, Fig   August 2025 - November 2025

- Optimized AI Mode search latency within Google's iOS mobile app via a Java microservice that preprocesses input queries
- Launched live feature experiments for 11 client-side UIKit and SwiftUI user journeys, with +10% average user retention rate

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

Data Scientist Intern, *Amazon* | 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