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

Project Management Intern, *Wabash National* | Python, Azure DevOps   August 2024 - Present

- Leading a team of 16 undergraduate and graduate students through the implementation of an internal AI chatbot
- Augmenting an LLM with company data & Microsoft Azure DevOps through Retrieval Augmented Generation (RAG)
- Integrating Google Analytics for cadence-based E-Commerce analytics, pipelining clickstream data into BigQuery

Data Science 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
- Built a tool for Site Merchandising to choose holiday assortment based on weekly product search volume and velocity

Software Engineer Intern, *Purdue University* | Flask, Next.js, TypeScript, Python, 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
- Received NASA recognition for Pacific Island mapped voyages along with interest in optimal routes to different geolocations

Data Science Intern, *Finish Line* | 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
- Addressed the challenge of querying a 1TB+ dataset by deploying PySpark to distribute computational power across nodes

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
- Uncovered a +3% YoY homeowner churn for Lafayette, catalyzing strategic community efforts towards revitalization

PERSONAL PROJECTS

Tailor Talent | *React.js, Express.js, Node.js*

- Built an AI-powered website that enables job-seekers to enhance resumes by extracting keywords from job descriptions

Custom Shell | *C/C++, Lex, Yacc, UNIX*

- Developed a custom command line shell in C & C++, leveraging Lex & Yacc for string tokenization & grammar parsing

SKILLS

- Programming Languages: Golang, Python, Ruby, Java, C++, C, C#, Java, Javascript/Typescript, SQL
- Technologies & Frameworks: AWS (Redshift, S3, Lambda), Azure DevOps, Google BigQuery, Apache (Spark, Hadoop), MongoDB, Next, Docker, Selenium, Redux, PyTorch, Express, PySpark, Pandas, NumPy, BeautifulSoup, OpenCV
- 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