# Ethan Wheat

620-778-9338 | ethanwheat@ku.edu | ethanwheat.xyz | github.com/ethanwheat

## EDUCATION

**University of Kansas** <div align="right">Lawrence, KS</div>
*Bachelor of Science, Computer Science (4.0 GPA)* <div align="right">*August 2021 – May 2025*</div>
- **Relevant Coursework**: Data Structures and Algorithms, Software Engineering, Operating Systems, Machine Learning, Database Systems, Computer Architecture, Compiler Construction, Data Mining, Artificial Intelligence

## EXPERIENCE

**Software Engineer Intern** <div align="right">May 2024 – August 2024</div>
*Cboe Global Markets* <div align="right">*Lenexa, KS*</div>
- Worked on the Data Pipeline Engineering Team, applying Linux development and unit testing
- Developed and scheduled Python and SQL reporting scripts for internal and external data transfers
- Built a program to display effectiveness metrics for 269 billing programs across 10 environments
- Designed complex queries to aggregate data from multiple databases and environments
- Configured ETL jobs to stream data into Amazon Snowflake, utilizing cloud-based data warehousing

**Cybersecurity Intern** <div align="right">May 2023 – August 2023</div>
*WellSky* <div align="right">*Overland Park, KS*</div>
- Developed HTTP verb and header scanning scripts for company URLs and generated Sisense reports
- Automated scan runs with Google Cloud and Apache Airflow, and stored the results in a PostgreSQL database
- Conducted penetration testing and communicated identified vulnerabilities to teams
- Revamped legacy Python scripts and improved runtime efficiency by 200% through multithreading
- Monitored and tagged company assets and infrastructure using Axonius to improve business unit recognition

**Freelance Software Development** <div align="right">May 2022 – September 2022</div>
*Magman's Gym* <div align="right">*Parsons, KS*</div>
- Developed gym membership management software with Python, Tkinter, and Figma for UI design.
- Stored membership data in a cloud-hosted MySQL database.
- Enabled membership tracking, renewals, cancellations, and updates.
- Added features for managing group memberships (family and company).

**Online Pickup and Delivery Associate** <div align="right">May 2020 – May 2023</div>
*Walmart* <div align="right">*Parsons, KS*</div>
- Fulfill online orders and dispense them to customers
- Provide customer service in-person and over the phone
- Work as a team to reach goals within the required time

## PROJECTS

**PantryBot** | *Web Application* <div align="right">September 2024 – December 2024</div>
- Built with React.js/Vite for the frontend, Node.js/Express for the backend, and MongoDB for the database.
- Implemented frontend features to track pantry items, create grocery lists, and manage custom or saved recipes.
- Enabled recipe searches via OpenAI GPT-4o Mini with prompts and filters crafted in the backend.
- Designed backend and database functionality to exclude pantry and grocery list items when adding recipes.

**Grub Gambler** | *Chrome Extension* <div align="right">September 2023</div>
- Built a browser extension with JavaScript and HTML/CSS that selects random restaurants with optional filters
- Created an API endpoint using Express and Node.js, enabling calls to the Yelp Fusion API
- Deployed API within a VLAN on a local server by leveraging Proxmox and NGINX reverse proxy

## TECHNICAL SKILLS

**Languages**: Python (proficient), SQL, C++/C/C#, HTML/CSS, JavaScript, PHP, Haskell
**Frameworks**: React, Node.js, Express, Airflow, Flask, Django
**Developer Tools**: Git, Docker, GCP, AWS, VS Code, PyCharm, Apache, Unity, Figma, Neovim
**Libraries**: pandas, NumPy, PyTorch, Matplotlib, Tkinter, scikit-learn, SciPy, Axios