# Kyan Cox

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## EXPERIENCE

**Outlier.ai**                                                                                                  May 2024 – Present
*AI Training (Contract)* | Java, Python, JavaScript / TypeScript
- Evaluated AI-generated code using **RLHF** techniques to enhance **LLM** accuracy.
- Developed and implemented test cases for **Python** and **JavaScript**, ensuring high-quality AI performance.

**Rye Chamber of Commerce**                                                                          May 2023 – June 2023
*Intern - Software*  | Python, Pandas, Git, Microsoft Excel
- Simplified a multi-day process of extracting and cleaning data from spreadsheets through **Python** and the **Pandas** library, aiding in the identification of over **200** potential customers, ultimately maximizing funds for events.
- Developed a mail merge process in **Python** to create outreach envelopes for prospective customers.

## PROJECTS

**Visual Snow Log** | React Native, Expo, FastAPI, AWS (EC2), Docker, Supabase, PostgreSQL, SQL, Python, TypeScript
- Developed a mobile app designed for those with Visual Snow Syndrome (VSS), a rare condition that affects ~3% of the world including myself, that allows users to log and track their VSS symptoms over time and export them to their email to show their doctor. Currently in process of deploying to App Store/Google Play with the Visual Snow Initiative.
- Implemented user authentication and data storage using **Supabase** and **PostgreSQL**.
- Created a backend API with **FastAPI** and Python to handle data processing and export functionality, utilizing **Pandas** for data manipulation and the smtplib library for sending emails via SMTP.
- Deployed the backend on an **AWS EC2** instance, containerizing the application using Docker for consistent development and deployment environments.

**LLM Comparison App** | React, Next.js, Tailwind CSS, MongoDB, Node.js, TypeScript, Chart.js
- Developed a full-stack web application using **Next.js**, **React**, and **TypeScript** to compare responses from OpenAI's ChatGPT, Google's Gemini, and Anthropic's Claude, utilizing their respective APIs.
- Integrated **MongoDB** for data storage and management, and utilized **Node.js** for server-side operations, including API endpoints and middleware to enforce query limits for premium models, ensuring efficient and fair usage.
- Implemented a voting system and data visualizations using **Chart.js** and **Tailwind CSS**.

**Cryptocurrency Investment Allocator** | Python, Flask, SQLite, JavaScript, HTML/CSS, Pandas, RESTful API
- Architected and developed CoinMerge, a novel full-stack solution for private investors that keeps track of lucrative investments across Coinbase, Gemini, and Ledger, shortening a 1-hour allocation process into **5 minutes**.
- Created a **RESTful API** using **Flask**, featuring **14 endpoints** to manage customer information within an **SQLite** database, that seamlessly integrates three external APIs for dynamic data retrieval, and employs OOP principles to ensure scalability and a maintainable code architecture.
- Utilized **Pandas** to both create an XLSX file for customers that exports their assets from multiple services into one centralized portfolio and parse through Ledger Live's Operation History CSV.

## EDUCATION

**University Of Wisconsin - Madison**                                                    September 2023 – May 2026
B.S. Computer Science, Statistics; Minor in Chinese Prof. Comm.                 GPA: 4.00/4.00 (Dean's List)
Relevant Coursework: Object-Oriented Programming (Java), Multivariable Calculus, Data Structures and Algorithms (Java), Elementary Matrix and Linear Algebra, Intro to Computer Engineering, Machine Organization & Programming, Discrete Mathematics

## COMMUNITY INVOLVEMENT & AWARDS

**Patti Caponera Memorial Scholarship**                                       *Rye Teachers Association* | June 2023
- Awarded this scholarship, named in honor after a late math teacher, for embodying a "love and appreciation of Mathematics, a great sense of humor and, most importantly, support and respect for peers and community."

**Rye Youth Soccer Scholarship**                                                       *Rye Youth Soccer* | June 2022
- Received this scholarship for making a "significant impact on the Rye community through participation in soccer," demonstrated through volunteer work for youth camps, leadership roles on various teams, and displaying sportsmanship on and off the field.

Other Involvements: Software Development Club, LeetCode Club, Star Wars Club, Google Student Developer Club, Badger Blockchain

## SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, TypeScript, SQL
Frameworks: React, Next.js, React Native, Expo, Flask, FastAPI, TailwindCSS, Express.js, Pandas, NumPy, Matplotlib, scikit-learn
Development Tools: MongoDB, PostgreSQL, SQLite, AWS, Docker, Node.js, Supabase, Vercel, Git, Postman