

# Kyan Cox

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## EDUCATION

### University of Wisconsin - Madison

Sep 2023 - May 2027

*B.S. Computer Science, Statistics*

**GPA: 4.00/4.00 (Dean's List)**

**Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming (Java), Distributed Systems (Docker), Database Management Systems (C++, SQL), C and Assembly Programming, Deep Learning & Generative Models (PyTorch)

## EXPERIENCE

### Software Engineer Intern

June 2025 - Aug 2025

*Gemini*

*New York, NY*

- Reduced deposit-to-trade friction for mobile users by **~54%** with in-flow auto FX (native fiat currency exchange), collapsing a **15 click** manual process to **7 clicks** using **React Native**.
- Architected **Scala REST APIs** that query and post to **PostgreSQL** tables used by **40+** engineers **2×** per on-call shift to investigate and resolve incidents.
- Enhanced a payment deposit confirmation screen in **React & React Native** by adding **5+** new features in support of Gemini's first-to-market EU tokenized asset launch.
- Engineered external **Scala REST APIs** integrating with payment provider Checkout.com to fetch real-time FX rates, powering cross-currency deposits/withdrawals for all international users.
- Eliminated **95%+** duplicate code by refactoring a **Next.js** on-chain wallet codebase with a **React** context provider for third-party DeFi integrations, standardizing hooks and state management.

### Capstone Software Engineer

Sep 2025 - Present

*Schneider National*

*Madison, WI*

- Collaborating with Schneider National software engineers through a UW-Madison capstone project.
- Optimize freight search engine UI/UX for **17,000+** users, using **React** to streamline reservation workflows.
- Develop personalized load recommendation models in **Python** using historical search and booking data.

### Undergraduate Teaching Assistant / Algorithms

Aug 2025 - Present

*UW-Madison Computer Sciences Department*

*Madison, WI*

- Selected as TA for CS 577: Introduction to Algorithms under Professors Marc Renault and Dieter van Melkebeek.
- Provide academic support to **350+** students through **10+** office hours weekly.
- Host **14** weekly hour-long study sections for groups of **20+** students.

### Undergraduate Research Assistant

Sep 2024 - May 2025

*UW-Madison Material Sciences & Engineering*

*Madison, WI*

- Designed an end-to-end **Python** ML pipeline using **Pandas**, **Scikit-Learn**, & **XGBoost** that predicts individual donation amounts within  $\approx$  **\$45** on average, explaining over **60%** of donation behavior for a local food pantry.
- Achieved **3×** **feature expansion**, growing a raw 5-column donation dataset to **15+** enriched fields (demographics, campaign context, seasonality) through Python web scraping, API integrations, and exploratory analysis.

## PROJECTS

### Degree Progress Visualizer | *React, Next.js, FastAPI, AWS (EC2), Node.js, TypeScript*

- Developed a web-app used **180+** times per semester by UW-Madison students to visualize and organize their degree audit reports using **React** and **Next.js**.
- Containerized a **FastAPI** backend with **Docker** to parse PDF reports, and deployed it on **AWS EC2**.

### Mobile Symptom Tracking App | *React Native, Expo, FastAPI, AWS (EC2), Docker, Supabase, PostgreSQL*

- Developed a **React Native** app in collaboration with a nonprofit for those with Visual Snow Syndrome, a condition that affects **~3%** of the world including myself, allowing users to track their symptoms over time.

### Cryptocurrency Portfolio Tracker | *Python, Flask, SQLite, TypeScript, Pandas, React, Next.js*

- Automated investment tracking for private investors via a **React** and **Next.js** interface, drastically reducing asset allocation time and enabling real-time insights through API development and integrations.
- Built a RESTful **Flask API** with **14** endpoints managing customer data stored in **SQLite**, and generated consolidated asset reports in XLSX format using **Pandas**.

## SKILLS

**Languages:** Java, Scala, Python, JavaScript, HTML, CSS, TypeScript, SQL, R, C

**Technologies:** React, Next.js, React Native, Expo, Flask, FastAPI, TailwindCSS, Express.js, Pandas, Scikit-Learn

**Development Tools:** MongoDB, PostgreSQL, SQLite, AWS, Docker, Node.js, Supabase, Vercel, Git, Postman