

Kyan Cox

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EDUCATION

University of Wisconsin - Madison

B.S. Computer Science, Statistics

Sep. 2023 - May 2027

GPA: 4.00/4.00 (Dean's List)

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

EXPERIENCE

Software Engineer Intern

Gemini

June 2025 - Present

New York, NY

- Implemented UI improvements using **React** & **React Native** in the wire-withdrawal cash-out flow, improving fiat off-ramping on a pipeline serving **100,000+** monthly transacting users.
- Architected **Scala** REST APIs utilized by internal web dashboards that query and post to **PostgreSQL** tables, used by **40+** engineers **2× per on-call shift** to investigate and resolve incidents.

Peer Mentor

UW-Madison Computer Sciences Department

Jan. 2025 - May 2025

Madison, WI

- Led over **20** one-on-one and group tutoring sessions each month, mentoring students in core Computer Science courses, debugging strategies, and best programming practices to improve their problem-solving skills.

Undergraduate Research Assistant

UW-Madison Material Sciences & Engineering

Sep. 2024 - May 2025

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.
- Trained a **Random Forest** classifier on **40+** engineered features, correctly flagging **71%** of future repeat donors.

Course Assistant

UW-Madison Interdisciplinary Professional Programs

Oct. 2024 - Nov. 2024

Madison, WI

- Facilitated hands-on activities and provided guidance to industry professionals, including engineers and managers, in understanding and applying Machine Learning and Artificial Intelligence concepts to their careers.

Intern

Rye Chamber of Commerce

May 2024 - June 2024

Rye, NY

- 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.

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.
- Containerized a **FastAPI** backend with **Docker** to parse PDF reports, and deployed it on **AWS EC2**.

AI Image Authenticity Detector | *Python, PyTorch, Google Colab, NumPy, Matplotlib*

- Benchmarked a baseline **MLP**, a custom two-block **CNN**, and a fine-tuned **ResNet18** on the 120k-image CIFAKE dataset to detect real vs. fake images.
- Boosted test accuracy from 80.6% to **95.6%** by implementing dropout regularization and learning-rate scheduling.

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

- Automated investment tracking for private investors via a full-stack 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