

William Whitehead

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EDUCATION

The University of Kansas

Expected Dec 2025

Bachelor of Science in Computer Science, Certificate in Cybersecurity

- Brian McClendon's Startup School, ACM, HackKU, Rock Chalk Investment Club, KU Run Club

EXPERIENCE

Software Engineer Intern

Jun 2025 – Present

Cboe Global Markets

- Developed a critical internal tool using React and Django to display real-time system status for all markets
- Built and tested Django REST endpoints to expose system metadata, health checks, and uptime metrics
- Designed scalable frontend architecture with reusable React components and API integration
- Wrote unit and integration tests with Jest to ensure frontend reliability across daily workflows

Quantitative Trading Intern

Jun 2024 – Jul 2024

Tradebot Systems

- Co-led a research initiative to backtest a novel depth-of-book-based trading signal
- Automated aggregation of 5M+ daily market updates across venues via Apache Airflow pipelines
- Delivered tools that accelerated signal testing and were adopted into the team's production workflow

Technology Director

May 2024 – Apr 2025

HackKU

- Developed a hackathon management platform used by 914 registrants, driving a 20% increase in attendance
- Built real-time QR check-in system tracking 2.2K+ unique check-ins, powering live analytics for 20+ organizers

Undergraduate Research Assistant

Feb 2023 – May 2024

KUbeSat

- Built embedded logic for two payloads, contributing to KU's first satellite launch via NASA's CubeSat Initiative
- Co-authored and presented a research paper at the International Telemetering Conference

Web Director

Dec 2023 – May 2024

University of Kansas ACM

- Built and deployed KU ACM's website using Astro and Tailwind CSS, KU's largest engineering org
- Improved accessibility for 450+ members with a custom tutoring schedule and CI/CD workflow

Founder

Aug 2022 – Nov 2022

Exodus

- Launched an international e-commerce brand, driving 4,000+ sessions and 65 conversions via organic marketing

PROJECTS

Next.js Real-Time Poker – *Next.js, TypeScript, React, Supabase, Prisma, TailwindCSS*

Spring 2025

- Built a full-featured multiplayer poker game with real-time sync using Supabase subscriptions
- Implemented game engine logic for blinds, turn rotation, betting rounds, and chip stacks with Prisma
- Designed responsive UI and state management for real-time gameplay across devices

Tickget – *Next.js, TypeScript, React, PostgreSQL, Prisma, Stripe Connect, TailwindCSS*

Fall 2024

- Designed a seamless UI for listing, discovering, and securely purchasing student event tickets
- Built an escrow-based transaction system that releases funds only after ticket verification
- Integrated Stripe Connect for handling multi-party payments with automated fund distribution

CSjobs – *JavaScript, Express, React, PostgreSQL, Mantine UI*

Summer 2024

- Aggregated over 1,000 software internships into a searchable database to streamline job hunting
- Developed user dashboards for saving job posts, tracking application statuses, and progress

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, HTML, CSS

Frameworks: React, Next.js, Tailwind CSS, Express, Django, Flask, FastAPI, Prisma, NextAuth

Tools: Firebase, Vercel, Render, GitHub Actions, Apache Airflow, Git, pandas