

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 – <i>Next.js, TypeScript, React, Supabase, Prisma, TailwindCSS</i>	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 – <i>Next.js, TypeScript, React, PostgreSQL, Prisma, Stripe Connect, TailwindCSS</i>	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 – <i>JavaScript, Express, React, PostgreSQL, Mantine UI</i>	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