

William Whitehead

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EDUCATION

The University of Kansas	Expected Dec 2025
Bachelor of Science in Computer Science, Cybersecurity Certificate	
– ACM at KU, HackKU Organizing Team, Rock Chalk Investment Club, KU Run Club – Completed Brian McClendon's Startup School with mentorship from Y Combinator partners	

EXPERIENCE

Incoming Web Development Intern	Summer 2025
Cboe Global Markets	
– Selected for a 10-week internship on the Web Software Engineering team at a major options exchange	
Technology Director	May 2024 – Apr 2025
HackKU25	
– Built and deployed a full-stack hackathon platform handling auth, analytics, and in-person event check-ins – Implemented RBAC-protected admin dashboard with real-time metrics, QR check-in, and access control – Engineered secure backend using Next.js, Prisma, Vercel Server Actions, and NextAuth	
Quantitative Trading Intern	Jun 2024 – Jul 2024
Tradebot Systems	
– Built a dashboard using pandas to visualize multi-level order book behavior across exchanges – Co-led a research initiative to backtest a novel depth-of-book-based trading signal – Developed an Apache Airflow pipeline to automate aggregation of exchange-level book data – Tools were integrated into the team's workflow, accelerating testing and gaining engineering resources	
Undergraduate Research Assistant	Feb 2023 – May 2024
KUbeSat	
– Co-authored and presented a research paper at the International Telemetering Conference – Developed start and stop logic for two mission-critical payloads using STM32Cube – Contributed to the University of Kansas' first satellite mission with NASA's CubeSat Launch Initiative	
Web Director	Dec 2023 – May 2024
University of Kansas ACM	
– Built KU's largest Engineering organization's site using Astro and Tailwind CSS – Engineered a custom tutoring schedule component to improve accessibility for 450+ members – Developed GitHub Actions workflow for automated deployment, reducing future manual overhead	
Founder	Aug 2022
Exodus	
– Grew an e-commerce store with international reach using organic social media marketing – Drove 4,000+ store sessions and 65 conversions using content-led strategies – Managed end-to-end operations including product sourcing, customer support, and analytics	

PROJECTS

Tickget – <i>Next.js, TypeScript, React, PostgreSQL, Prisma, Stripe Connect, TailwindCSS</i>
– 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>
– 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 – Crafted a fully responsive interface with Mantine UI, optimized for both desktop and mobile

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, HTML, CSS
Frameworks: React, Next.js, Tailwind CSS, Express, Flask, FastAPI, Prisma, NextAuth
Tools: Firebase, Vercel, Render, GitHub Actions, Apache Airflow, Git, pandas