

# William Whitehead

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## EDUCATION

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**The University of Kansas (KU)**, B.S. in Computer Science

Expected Dec 2025

- 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

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**Incoming Web Development Intern**, Cboe Global Markets

Summer 2025

- Selected for a 10-week internship on the Web Software Engineering team at a major options exchange

**Technology Director**, HackKU25

May 2024 – Apr 2025

- 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**, Tradebot Systems

Jun 2024 – Jul 2024

- 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**, KUbeSat

Feb 2023 – May 2024

- Co-authored and presented a research paper at the International Telemetry 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**, University of Kansas ACM

Dec 2023 – May 2024

- 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**, Exodus

Aug 2022

- 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

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

- 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*

- 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

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**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