

Austin Knapp

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AI Prototyping & Building, Automation, Supply Chain Analytics, SaaS Systems, Growth Engineering

Founder and builder with experience building AI, analytics, and automation solutions across supply chain, real estate, and market intelligence use cases. Skilled in Python, ML prototyping, workflow automation, and translating business problems into deployable systems and executive-facing insights. Background in operations and supply chain management with a strong focus on efficiency, decision support, and measurable business value.

PROFESSIONAL EXPERIENCE

NexStratus

Cary, NC

Capstone Project Team Lead

October 2025 – Present

- Built an early-warning AI system in Python to identify healthcare supply-chain risk up to 72 hours in advance, enabling earlier intervention and reducing downstream operational risk and enabling earlier intervention.
- Led a 5-person team in designing an end-to-end analytics workflow including feature engineering, model development, evaluation, and business interpretation across multiple model approaches.
- Applied machine learning techniques including XGBoost, classification, and clustering to surface high-impact operational risk patterns, support faster decision-making, and reduce potential supply chain disruptions.
- Translated model outputs into executive-ready dashboards and recommendations focused on decision support, adoption, and measurable operational value.

Motor Intelligence

Greenville, SC

Data Analytics and AI Insights Analyst

May 2024 – Present

- Developed Python-based machine learning and estimation workflows to automate extraction and forecasting for OEM incentive and pricing intelligence reports.
- Built and scaled Excel/VBA and cloud-integrated data pipelines to process recurring manufacturer incentive data with higher speed, consistency, and reliability.
- Delivered analytical outputs used by automotive manufacturers, equity analysts, and hedge funds to support valuation, pricing, and market strategy decisions.
- Improved operational efficiency and reduced manual processing time by ~3x by redesigning data workflows and optimizing extraction logic across recurring reporting pipelines.

RentPad AI

Newark, DE

Co-Founder & CEO

November 2024 – Present

- Architected and developed an AI-enabled SaaS platform for property management focused on reducing manual work across rent collection, tenant communication, maintenance workflows, and operational coordination.
- Built end-to-end product development across workflow design, system architecture, user onboarding, payments, and automation features for landlords and property managers
- Translated customer pain points into product requirements and deployable workflow solutions, aligning platform development with operational efficiency and user adoption goals.
- Directed roadmap, pilot implementations, and AI-assisted product features designed to streamline business processes and improve scalability for small property operators.
- Built AI-assisted workflows and automation features designed to reduce manual coordination and improve operational efficiency for property managers.

Sequoia Apps

Blacksburg, VA

Founder & Lead Developer

July 2025 – Present

- Founded and led a development studio delivering web, analytics, and automation solutions focused on improving business workflows and operational performance across 10+ production applications for diverse business use cases.
- Designed and deployed production systems across cloud infrastructure supporting 1,000,000+ annual page views, with a focus on performance monitoring and operational reliability.
- Led client discovery, technical solution design, implementation, and post-launch optimization for data-driven applications.
- Built automation and analytics workflows to improve reporting, performance visibility, and operational efficiency across client environments.

VOLUNTEER EXPERIENCE

Feeding The NRV

Pulaski, VA

Founding Member & Director of Digital Strategy

February 2024 – Present

- Lead all technology, including design, development, and ongoing maintenance of the organization's website and digital presence
- Provide strategic and governance oversight while supporting initiatives that deliver ~400 meals per month to individuals and families across the New River Valley

EDUCATION

Virginia Polytechnic Institute and State University (Virginia Tech)
Master of Science in Business Administration — Business Analytics

Graduation: July 2026 | Blacksburg, VA

Virginia Polytechnic Institute and State University (Virginia Tech)
Bachelor of Science in Business Information Technology

Graduation: May 2025 | Blacksburg, VA
GPA: 3.82/4.00
Dean's List: 6/6 Semesters

TECHNICAL SKILLS

Tools & Technologies: Python, SQL, JavaScript, TypeScript, VBA

AI/ML: scikit-learn, XGBoost, machine learning, classification, clustering, forecasting prompt engineering, LLM prototyping, retrieval-augmented generation (RAG), AI workflow automation, agent-based systems

Analytics/BI: Tableau, Power BI, Excel, PivotTables, Solver

Systems/Dev: GitHub, Node.js, APIs, cloud infrastructure, workflow automation

Business Domains: Supply chain, operations, pricing analytics, process optimization, SaaS product strategy

PROJECTS

Red Cross Research Project

Virginia Tech | December 2024 – June 2025

- Supported disaster operations research by developing an Excel-based predictive model to estimate store counts from county-level population data.
- Integrated multiple datasets and optimization tools to improve asset pre-positioning and supply-chain resilience planning.

AI PROJECTS & PROTOTYPES

RentPad AI – Proprietary AI Model for Property Management Automation

- Designed a proprietary AI model to automate decision-making and workflow orchestration across property management operations, including tenant interactions, payment workflows, and maintenance coordination.
- Focused on reducing manual workload and improving operational efficiency through intelligent task routing and automation logic.
- Developing intellectual property around AI-driven workflow automation and system orchestration (patent in progress).

Bernard – AI Personal Assistant (LLM-powered personal assistant)

- Built an AI-powered personal assistant capable of task management, reminders, workflow automation, and decision support using LLM-driven interactions.
- Designed agent-style workflows to handle multi-step tasks including scheduling, financial tracking, and productivity management.

AI Lead Generation & Web Automation System

- Developed an AI-driven system using Python and LLM workflows to autonomously search the web, extract real estate listings, and retrieve contact data for outbound sales workflows.
- Automated data collection and enrichment processes, significantly reducing manual prospecting time.

Alfred – AI Mobile Assistant (iOS, in progress)

- Building an AI-powered mobile assistant focused on real-time task execution, automation, and user interaction through LLM-based workflows and system integrations.