

# Brad McNew

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## Education

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**University of Michigan**, Ann Arbor, MI **Expected May 2027**  
*Bachelor of Science in Computer Science*  
**Relevant Coursework:** Data Structures & Algorithms, Web Systems, User Interface Development, Database Management Systems, Startup Sales

## Experience

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**Discuno** — Founder Full-Stack Developer **Aug 2024 – Present**  
*A web platform connecting prospective students with verified university mentors.*

- Architected and developed a full-stack mentorship platform from the ground up using Next.js deployed on Vercel.
- Led the full product lifecycle from ideation and user research to a successful beta launch, acquiring an initial cohort of 50+ early users through targeted campus outreach and social media campaigns.
- Designed and implemented secure payment processing with Stripe, including webhook-based communication for real-time transaction handling.
- Conducted 20+ user interviews and usability tests to gather feedback.

**University of Michigan, ITS** — Technical Consultant **Jan 2025 – Present**

- Provide direct technical support to over 1,000 students and faculty, resolving an average of 150+ tickets per month related to software, hardware, and network connectivity issues.
- Troubleshoot complex issues with university-wide enterprise systems, including Canvas, Duo 2FA, and Adobe Creative Cloud, improving user uptime and satisfaction.

## Projects

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**Embedded AI Chat** — RAG-Enabled Chatbots for SMB Websites **Fall 2024**  
*Developed retrieval-augmented generation (RAG) chatbots integrated into local business websites to answer customer queries with context-aware responses.*

- Designed data pipelines in **n8n** to scrape business FAQs, policies, and product catalogs, then chunk and embed documents using **OpenAI + Pinecone**.
- Built RAG workflows that combined vector search with GPT-4 completions, ensuring chatbot answers were grounded in business-specific data.
- **Tech Stack:** n8n, OpenAI API, Pinecone, Node.js, TypeScript, Webhooks

**Axite AI** — Python Agent for Sim2Real Sensor Validation **Winter 2025**  
*Built a Python-based software agent that attaches to a robot, logs live sensor streams using Rerun, and synchronizes with a server for sim-to-real differential analysis.*

- Developed a lightweight Python agent to interface with onboard sensors (IMU, LiDAR, motor encoders), streaming structured sensor data in real time via the Rerun SDK.
- Automated differential comparisons between simulated and real-world trajectories, flagging deviations beyond configurable thresholds to refine robot control policies.
- **Tech Stack:** Python, Rerun, WebSockets, AWS, Docker

## Skills

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**Languages:** Python, JavaScript/TypeScript, Java, C++, SQL, HTML/CSS  
**Frameworks:** React, Node.js, Express, Next.js, Flask, Tailwind CSS, JUnit  
**Databases & Tools:** PostgreSQL, MongoDB, Git, Docker, AWS (EC2, S3), Figma, Jira, Postman