

# Chase Reynolds

## Software Engineer

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### EXPERIENCE

#### AI Intern | Speer Technologies | Orlando, Florida

April 2024 - Present

- **System Architecture & Automation:** Led the development and implementation of System One using n8n workflow automation and Supabase PostgreSQL, achieving 90% reduction in report generation time while maintaining 99.9% uptime through robust Linux server configuration and Shell scripting.
- **AI Integration & Development:** Engineered a sophisticated RAG system leveraging xAI Grok and LangChain, implementing advanced prompt engineering techniques that improved report accuracy and contextual understanding, while reducing clarification requests by 85%.
- **Data Pipeline Engineering:** Architected real-time data pipelines using X API Realtime API and Node.js, enabling automated research capabilities with 95% accuracy and seamless integration with existing systems.
- **Vector Database Implementation:** Designed and deployed a vector-based memory system utilizing Supabase pgvector and OpenAI Embeddings, implementing query optimization that significantly improved response times for semantic search operations.
- **Project Management & Collaboration:** Managed cross-functional teams using agile methodologies, coordinating development efforts through GitHub, and maintaining comprehensive documentation for complex AI systems.

### PROJECTS

#### Macros Social Nutrition Tracker

June 2025 - July 2025

- **Full Stack Architecture:** Designed and implemented a comprehensive nutrition tracking platform using Next.js 14 and Express.js, integrating USDA's food database API and implementing real-time social features with MongoDB Atlas.
- **Mobile Development:** Led parallel development of a cross-platform Flutter mobile application, ensuring feature parity and consistent user experience across web and mobile platforms.
- **Project Management:** Managed development lifecycle using agile methodologies, coordinating frontend, backend, and mobile development tracks while maintaining comprehensive documentation and testing protocols.
- **Cloud Integration:** Implemented cloud services including Cloudinary for image management and SendGrid for email verification, achieving scalable architecture with robust error handling and security measures.
- **UI/UX Design:** Created an intuitive user interface using shadcn/ui and Tailwind CSS, implementing dark/light theming and responsive design patterns that resulted in optimal user engagement across devices.

#### SmartCards Budgeting & Receipt Processing

Oct 2024

- **Hackathon Leadership:** Led development of a first-place winning AI application at ShellHacks 2024, managing a team of developers and architecting a hybrid React/Flask solution that showcased innovative receipt processing capabilities.
- **Backend Architecture:** Engineered a sophisticated Python backend using Flask and FastAPI, implementing GPT-4 integration that achieved 50% faster receipt processing through intelligent transaction classification.
- **Database & Sync:** Implemented Firebase real-time database integration with TypeScript, enabling instant cross-device synchronization with 99.9% data consistency and robust error handling.
- **Full Stack Integration:** Developed seamless frontend-backend communication using RESTful APIs, implementing comprehensive error handling and type safety through TypeScript integration.

### EDUCATION

#### University of Central Florida | Orlando, Florida

August 2025

Bachelors - Applied Mathematics, Minor - Computer Science, GPA: 3.54

### SKILLS

LangChain & NLP  
GPT-4 & LLMs  
AI & Agentic Frameworks  
Vector Database Management  
RAG Systems & Embeddings

TypeScript & JavaScript  
Next.js & React  
Flutter & Dart  
MongoDB & PostgreSQL  
Docker & CI/CD

Git & GitHub Actions  
Supabase & Firebase  
N8n & Workflow Automation  
REST & GraphQL APIs  
Linux & Shell Scripting