

# Kade Pitsch

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## Summary

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Software engineer specializing in AI-powered research systems and data pipeline architecture. 4+ years of experience building production systems that process millions of records. Currently developing a multi-step LLM researcher for our biomedical team. This includes custom agent orchestration, RAG implementations and a human in the loop style of feedback system.

## Experience

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### Software Engineer, Envita Medical

January 2025 - Current

- Architected and built a multi-step AI research pipeline from scratch that analyzes drug: pathway relationships across millions of medical data points. The pipeline includes intelligent query selection, initial lightweight filtering, result distillation, and a final synthesis step. Full transactional logging for auditing/refinement.
- Developed a custom LLM orchestration in TypeScript. This enabled flexible provider switching and a structured way to A/B test models
- Built a lightweight "Human in the loop" feedback system where physician reviews are captured and fed back into the pipeline
- Architected and implemented our lab LIMS system. Integrating local, cloud and our third party LIMS provider.
- Collaborated directly with physicians to develop recommendation algorithms for treatment plans.

### Software Engineer, Conduit Resources

February 2024 - August 2024

- Modernized legacy logging infrastructure by parsing millions of unstructured HTML blobs into structured, query-able data (status, date, timestamp, client...etc.) stored in a relational database.

### Python Developer, Florida Blue

October 2022 - June 2023

- Built and maintained back-end integrations for the payment verification system

### Solutions Developer, Zoot Enterprises

July 2021 - June 2022

- Developed automation scripts (Bash, Python) for one of our largest retail clients. Reduced manual processing time from 30 days to a few hours. Built front-end credit prescreen code and optimized SQL queries for production data analysis.

### Python Developer, MSU-Bozeman

February 2020 - November 2020

- Built a Selenium scraper to extract student names from public honor roll data to generate student emails for graduate school recruitment outreach.

## Education

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### Bachelors of Computer Science, MSU-Bozeman

August 2016 - May 2021

## Skills

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**Languages:** TypeScript, Rust, SQL, Python, Go

**AI/ML:** Vercel AI SDK, Claude API, Gemini API, Exa.ai

**Infrastructure:** Azure DevOps, CI/CD, Docker