

Allison Coleman

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github.com/alliecatowo

Skills

Languages: Python, TypeScript, Vue, React, GoLang, SQL, HTML/CSS, C/++, Rust, JavaScript, Bash

Technologies: Google Vertex AI, Claude API/Code, Google Firebase, LangGraph/LangChain, Haystack, LLaMaIndex, n8n, FastAPI, Nuxt 4, Terraform, Zapier, Qdrant, GCP, Docker, Supabase, PostgreSQL, CI/CD, ETL Pipelines, RAG Systems, TailwindCSS, Kubernetes, OAuth, Github Actions, Figma, Linear, GitLab, Asana

Experience

Software Engineer-III, Parsec Education – Fresno, CA

December 2021 – September 2025

- Core engineer during the company's formative stage; architected and deployed every core system from MVP through production, forming the backbone for future product and data teams.
- Implemented containerized micro-services and cost-optimized cloud pipelines, cutting operational overhead by thousands per month
- Mentored junior devs and interns, building a “strike-team” culture for rapid iteration and proof-of-concept delivery
- Architected data-ingestion pipelines that processed thousands of documents and media files into searchable, structured formats
- Built AI-assisted research tools that integrated retrieval-augmented generation (RAG), vector search, and custom transformers to surface critical evidence and insights
- Developed interactive dashboards and document-rendering systems that transformed raw data into clean, human-readable visual reports
- Deployed security-first architectures for sensitive datasets, including IAM policies, encrypted storage, and compliance-aligned access control
- Collaborated cross-team developing the core application platform via integrating AI features
- Developed agentic AI to interact with data from multiple internal data lakes, while protecting sensitive PII

Projects

Legalease

legal-ease.app

- Developed fully self hosted legal service to manage case discovery with local LLM integrations
- Created optical character recognition software to identify individuals in case discovery documents
- Integrated speaker detection with Whisper, Pyannote, SpaCy to create full transcripts of case discovery videos and audio with 100 percent accuracy
- Built for scalability and management of 20+ terabytes of case discovery
- Developed user-friendly UI using Vue and Nuxt

Shrike Publishing

shrike-publishing.com

- Reduced site management cost for small business from 45 dollars per month to 0 dollars per month
- Developed small business website with user-friendly, easy-edit content management system in Nuxt Content Studio

Education

California State University Monterey Bay, Major in Computer Science

Aug 2018 – May 2021

- **Coursework:** Software Architecture, Machine Learning Algorithms, Data Science, Web Development
- **Concentration:** Software Engineering