

William Yennie

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EXPERIENCE

Open Source Contributor, *ZenML* 2024

Developed a chatbot feature for the ZenML VSCode extension, enabling users to optimize and troubleshoot ML pipelines through AI-driven interactions.

- Integrated AI models like OpenAI's ChatGPT and Anthropic's Claude to provide contextual responses and optimize ML pipeline components.
- Engineered a dynamic UI for the chatbot, including dropdowns and interactive elements, and implemented state management for user-selected contexts, enhancing the chatbot's ability to provide relevant assistance and improving user experience.
- Utilized advanced JavaScript and TypeScript techniques to handle real-time message streaming and context-aware responses.
- Ensured robust error handling and user feedback mechanisms to maintain high reliability and user satisfaction.

Software Engineer; Co-creator, *Firefly* 2022 – 2023

Firefly is an open-source observability framework, providing an overview of serverless function health through the use of metrics and traces.

- Created a custom OpenTelemetry collector capable of handling up to 500,000 metrics and trace data points per day, enhancing data collection efficiency.
- Implemented middleware for context propagation in traces, improving trace accuracy for asynchronous Lambda invocations, potentially benefiting over 1,000 invocations across multiple functions.
- Architected a telemetry pipeline using OpenTelemetry and Promscale, resulting in a 30% reduction in data retrieval times for performance monitoring.
- Developed a CLI tool to automate the instrumentation of Lambda functions and set up AWS infrastructure for emitting metrics from CloudWatch, reducing setup time by up to 40 hours.
- Automated AWS infrastructure setup and teardown with AWS SDK and Terraform, decreasing provisioning time from hours to under 10 minutes.
- Streamlined telemetry pipeline setup to 2 simple steps using Docker, simplifying deployment for the engineering team.
- Designed Grafana dashboards for serverless function telemetry, improving visibility into performance metrics for the engineering team.
- Authored technical case study on Firefly's development and use case ([read the case study here](#)).

Founder & Lead Photographer, *Yennie Photography* 2015 – 2020

- Leveraged Adobe Photoshop and Lightroom to produce high-quality, professional-grade images, boosting portfolio diversity by 50%.
- Managed 50+ client projects from initial consultation to final delivery, achieving a 95% client satisfaction rate and 30% increase in repeat business over the 5 year span

SKILLS

Programming Languages — JavaScript, TypeScript, Node.js, Golang, Ruby, **Web Technologies** — HTML, CSS, React, GraphQL, **Databases** — PostgreSQL, MongoDB, Redis, **Cloud & DevOps** — AWS, Docker, Terraform, **Tools** — Nginx, GitHub Actions, Linux, VSCode Extension API, **AI/ML** — AI Model Integration, Natural Language Processing (NLP), Contextual AI Responses, Tokenization and Streaming, AI Model Configuration