

# Lyn Cassandra Phan

**SOFTWARE ENGINEER | AI/ML, DATA SCIENCE & AUDIO/VIDEO SYSTEMS**

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## Professional Summary

Software engineer with nearly four years shipping production features for a browser-based video editor. Full-stack experience spans REST APIs, AWS, transcript-driven and AI-assisted workflows, code review, product collaboration, and production media systems; current independent work includes Python tooling for auditable AI research and media analysis.

## Technical Skills

**Programming:** Python, TypeScript, JavaScript, Ruby, SQL, C++, Java, HTML, CSS

**AI & Data:** Artificial Intelligence, Machine Learning, Large Language Models, AI Evaluation, Multimodal AI, PyTorch, TensorFlow, Pandas, Data Analysis, Data Engineering, Signal Processing

**Engineering:** Full-Stack Development, REST APIs, Ember.js, Ruby on Rails, Node.js, AWS (S3, Lambda, Elastic Beanstalk), Docker, Terraform, Datadog, Deployment Workflows, Production Troubleshooting, Code Review, Software Testing, Git, Linux

**Media Systems:** FFmpeg, Video Processing, Video Codecs & Compression, Media Processing & Rendering, Streaming Media, Audio/Video Pipelines, OBS, Max/MSP, DaVinci Resolve, Adobe Premiere Pro, Adobe After Effects

## Professional Experience

### Independent

**Independent Software Engineer / Data Analyst / Technical Media Producer** | Atlanta, GA | Feb 2025 - Present

- Built and maintained Veilscout, a collection of tested Python tools for evidence-validated AI research, model evaluation, long-form media analysis, and reproducible capture-and-replay workflows.
- Built analytics tooling using retention, click-through, and engagement data to guide two independent brands with a combined cross-platform following in the thousands, including one grown from launch to four figures in under six months.
- Designed and operated technical media systems spanning studio hardware, OBS/VST audio chains, rigged avatars, face-tracked animation, and color-managed DaVinci Resolve workflows for ongoing cross-platform production.

**Biteable** | Atlanta, GA

**Software Engineer, Audio/Video** | Jan 2022 - Feb 2025

**Audio/Video Software Engineer** | May 2021 - Dec 2021

- Developed production editor and media-processing functionality across Ember.js, Ruby on Rails, and Node.js; worked with FFmpeg, video codecs, compression, and rendering workflows while building REST APIs, improving file uploads, and supporting large database migrations.
- On a small team, shipped production video-editor features spanning undo/redo, filtering, file uploads, image manipulation and rotation, custom fonts, recolorable SVGs, and frontend UI.
- Supported AWS-hosted production delivery and platform operations using S3, Lambda, Elastic Beanstalk, Docker, Terraform, and Datadog, including deployment workflows, monitoring, and production troubleshooting.
- Served on the core team for Magic Editor, later Smart Editor, a transcript-driven video editing workflow; contributed to product design, prototyping, software implementation, and iterative improvements.
- Prototyped AI-assisted workflows for transcript-to-video generation, automated templating, and style conversion.
- Reviewed and tested production changes, helped keep engineers unblocked, and contributed to product management, UI/UX, and strategic planning; onboarded and trained an incoming product manager.

## Selected Software Projects

**Veilscout and Component Projects** | Independent | 2026 - Present

- Developed and tested modular Python tools for validating research claims against fetched sources, benchmarking agents against frozen ground truth, analyzing long-form video and transcripts, reviewing multimodal context, and capturing and replaying model responses. Designed append-only run histories, deterministic validation, command-line workflows, and structured Markdown, JSON, and CSV outputs.

## Additional Technical Experience

**Georgia Institute of Technology - College of Computing** | Atlanta, GA

**Technical Assistant II, Web Team** | Sep 2017 - Aug 2018

**Technical Assistant II, Help Desk** | Sep 2016 - Aug 2017

- Maintained Drupal sites and SQL databases; authored Linux, networking, systems-administration, and cybersecurity training; built automated deployment tooling that saved hundreds of staff hours.

## Education

**Georgia Institute of Technology** | Atlanta, GA

Bachelor's Degree, Music Technology | 2016 - 2020

**Honors:** Graduated with High Honors; G. Wayne Clough Promise Scholar

**Languages:** English and Vietnamese (bilingual)