Christina

Creative Technologist & Tech KOL | Visual Web Experiences, Creative Coding & Tech Storytelling

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Profile

Creative technologist and tech KOL who turns curiosity into things people can see, play with, and understand. Combines 3.5 years of production software engineering with original illustration, 3D modeling, and creative coding to build visual-heavy web experiences, from Rive-animated characters and WebGL effects to illustrated data dashboards. Researches, experiments, and explains each build in long-form articles written for both beginners and developers, with a playful, human voice. Partners with brands on freelance KOL campaigns and brings hands-on skills in ideation, scriptwriting, video editing, and social media analytics to tech-focused content and creative projects.

Selected Creative Projects

Lost in the Star: Kaleidoscope Eyes

- Brought an original Affinity illustration to life by layering Rive character animation with two Three.js/WebGL canvases that render live kaleidoscope patterns inside the eyes, kept aligned across three zoom levels and window resizing at a smooth 60 fps.
- Added click-to-blink pattern reshuffling, cursor ripples, a live control panel for speed, color, complexity, and symmetry, and keyboard pause/resume.

Threads Constellation

- Turned 1,000+ Threads posts and replies into an interactive Canvas star map, matching conversation graphs to real constellation figures by node count and branching pattern.
- Built the data path on Cloudflare Pages Functions, Workers, and D1, with a scheduled sync that compresses snapshots and skips unchanged writes.

Spotify Dashboard (Night City Theme)

- Hand-drew a night-city scene in Affinity and turned it into a music analytics dashboard where D3.js charts become stars, a CSS moon, and lit-up buildings, with filters and in-page playback over 999 ranked tracks.

Fireworks Visualizer

- Turned high-school trigonometry and physics into a playful p5.js fireworks playground with a live Trig Inspector, presets, and recursive bursts, tuned to stay smooth on mobile through adaptive quality levels.

Text to Tone

- Designed a text-to-music experiment in React and Tone.js that maps consonants to notes and vowels to chords across three moods, with live typing playback and in-browser MP3 export.

Writing Mood

- Prototyped a mood-based writing space with React, Slate, and Zustand where writers change backgrounds, overlays, typography, width, and music without touching the draft.

3D Isometric Room

- Modeled an original room in Blender and brought it to the browser with Three.js, day/night shader transitions, GSAP hover animations, and background music as a spatial alternative to a portfolio page.

KOL & Tech Storytelling

Tech KOL on TikTok, @christina.atelier

- Partner with brands in cloud computing, digital marketplaces, and e-learning on freelance KOL campaigns, adapting brand messages into native, creator-style content.
- Reached 150K views on a single video and a peak engagement rate of 40%, well above typical short-form benchmarks.
- Built a 1,500-follower tech and creative audience with short-form content made end to end, from ideation and research to scriptwriting and editing in CapCut and Canva.

Christina Workroom (Portfolio Blog)

- Wrote 16 long-form articles that break down creative tech builds end to end, from the idea and research to architecture diagrams, trade-offs, and lessons learned, with a simple view and a nerdy view of each system for mixed audiences.
- Designed and built the blog itself with Astro, typed content collections, and a Git-backed CMS for a smooth write-and-publish workflow.

Petster: UI/UX Case Study

- Led a 4-month solo design study from research to prototype, including a 35-respondent survey, 3 in-depth interviews, competitor analysis, 56 brainstormed solutions, and two rounds of usability testing across 10 scenarios, reaching a SUS score of 75, then published it as a storytelling case study.

Hermes x WhatsApp: Brain-Dump Executor

- Built and documented an AI agent workflow that turns WhatsApp self-messages into organized Notion ideas and to-dos, and can research an idea and attach a mini project plan, a personal pipeline for capturing and developing content ideas.

Data Stories (MLBB Heroes and Effort to Buy)

- Turned public data into explorable stories, from a 132-hero Mobile Legends meta dashboard with a custom Python scraper to a tool showing how many minimum-wage work hours everyday items cost across 48 countries.

Professional Experience

BCA Finance Mar 2025 – present

IT Development & Software Engineer Specialist

- Build user-facing flows in a production Angular/TypeScript loan-origination app used by 3,800+ internal users across 50+ branches, including real-time status updates with clear loading and timeout states.
- Modernized an internal admin CMS from Angular 11 to Angular 21 in two weeks, rebuilding templates and cleaning up legacy styles.
- Share project-management duties with business analysts, shaping requirements, scope, and timelines, and gather input directly from real users to turn their feedback into product improvements.
- Write flow documentation and explain technical decisions to QA, backend, and security teams, translating complex behavior into clear, shareable docs.

BCA Finance Feb 2024 – Mar 2025

Application Development Staff

- Implemented frontend forms, document workflows, and API integration across loan and courier web apps, plus camera and GPS features in an Android survey app.

Client Project, Warehouse Management System Jan 2024

UI/UX Designer & Frontend/Android Developer (Freelance)

- Designed the complete UI/UX for a client's inventory, sales, and invoicing system across web and Android, from screen layouts and navigation to task-focused user flows.
- Built the web dashboard (Next.js, React, TypeScript) and a client-specific Kotlin Android app with camera barcode scanning and reviewable stock-change drafts; the system is now in production and maintained by the client's team.

Creative & Content Skills

Content creation: Topic research, experimentation, ideation, scriptwriting, long-form and technical writing, short-form video editing (CapCut, Canva)

Audience & collaboration: KOL campaigns, brand collaboration, social media analytics, storytelling for mixed technical and non-technical audiences

Visual & design: Illustration (Affinity), UI/UX design (Figma), user research, usability testing, 3D modeling (Blender)

Motion & creative coding: Rive, Three.js, WebGL, GLSL shaders, HTML Canvas, p5.js, GSAP, Lottie

Data & audio storytelling: D3.js, Chart.js, Python, Pandas, Tone.js, Web Audio

Web & app building: TypeScript, React, Next.js, Angular, Astro, Vite, Kotlin (Android), Netlify, Cloudflare

AI & automation: AI agents (Hermes Agent), workflow automation (n8n), MCP, Claude Code, GitHub Copilot, Hugging Face

Languages: English (professional working proficiency), Indonesian (native)

Education

Telkom University Aug 2018 – Apr 2022

B.Eng in Informatics

- CGPA: 3.87 / 4.00

Achievements

- UI/UX Competition Runner-Up, Smart IT Fest 2020
- OSC MetroTV News Scholarship Awardee, 2017