

# Joshua Kaspar

Developer Advocate

St. Augustine, FL | JoshuaKaspar@gmail.com | (904) 294-8538 | joshkaspar.dev | github.com/joshkaspar

## Summary

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Technical educator and Linux hobbyist transitioning to Developer Advocate. I build real tools and explain them clearly.

## Skills

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**Systems & Infrastructure:** Linux (Ubuntu/Debian, Gentoo, Arch, Alpine, Unraid), bash/zsh, Docker, SSH, networking, VM provisioning (QEMU/KVM), self-hosted services

**Automation & Scripting:** Python, bash, Power Automate, systemd

**Development & Tooling:** git, HTML/CSS, JavaScript, 3D printing (Bambu P1S)

**Emerging:** MCP (Model Context Protocol), local AI integration, generative art (p5.js)

**Certifications:** CompTIA A+ (In Progress, expected Summer 2026)

## Projects

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### CUTEkit

Config-driven bootstrap tool that provisions a hardened, browser-accessible Ubuntu terminal workbench from a single YAML file.

- Built a YAML-to-script code generation pipeline using Python, APT, and mise — users declare their full toolchain once and get a reproducible environment without writing shell scripts.
- Wrote all user-facing documentation (README, post-install guide, tool reference) in plain language so developers at any experience level can self-host a productive TUI environment without prior Linux expertise.
- Designed for idempotency and reproducibility using linked QEMU/KVM VM clones for base/dev/test separation — applying CI/CD principles to personal infrastructure.

### Mostly Human Readable

Technical blog covering Linux, developer tooling, and self-hosting.

- Write approachable technical posts aimed at developers who learn by doing — translating real decisions (toolchain tradeoffs, dotfile management) into readable, actionable content.

### inksomnia

Generative sleep-screen library for XTeink e-ink displays using Truchet tiling and Perlin noise in p5.js.

- Built a procedural rendering system with randomized composition rules so displays produce unique, never-repeating imagery — demonstrating applied creative coding and hardware integration.

## Experience

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**AP Biology & Chemistry Teacher**, Toco Creek High School

2021 – present

- Rebuilt AP Biology curriculum from scratch against College Board CED standards — program grew to 100+ students with a 75%+ AP exam pass rate.
- Function as a solo instructional designer — producing scaffolded lab materials and assessments from first draft to student-ready format under tight resource constraints.
- Served as department chair, PLC lead, and mentor teacher — facilitating team alignment, data-driven instruction, and onboarding of new staff.

**Online Science Teacher**, Digital Academy of Florida

2020 – 2021

- Delivered Biology instruction through a blend of synchronous and asynchronous web-based programs combining multimedia, simulation, and scaffolded assessments — managing a high-volume student load.
- Maintained accessibility compliance and provided proactive stakeholder status reports across a distributed student population.

**Science Teacher**, St. Johns County Schools

2009 – 2020

- Grew AP Biology program to 100+ students with 75%+ passing the AP exam; increased Biology EOC pass rate to 96% through individualized instruction and frequent feedback.
- Served as informal first-line technical support — troubleshooting hardware and software and conducting staff training on new tools.
- Evaluated edtech platforms for district-wide adoption as PLC lead, synthesizing tradeoffs for non-technical decision-makers.

**Adjunct Teacher**, St. Johns Virtual School

2011 – 2012

- Increased course pass rate by 35% in the first semester by implementing targeted intervention tracking and proactive outreach to at-risk students.

## **Education**

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**University of North Florida**, BA in Science Education (Biology)

- Certifications: Biology 6-12, Chemistry 6-12, Clinical Educator

## **Volunteering**

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- St. Johns Education Association Bargaining Team (2017–present) — contract language analysis and data synthesis
- SAC Chair, Fruit Cove Middle School (2011–2012) — needs assessment and funding evaluation