

Grayson Cooper

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WORK EXPERIENCE

NVIDIA

August 2025 - December 2025

Software Engineering Co-Op — Systems

Santa Clara, California

- Build the software simulation of the Vera Rubin hardware stack used by internal component teams to validate drivers and system components pre-silicon.
- Co-own CI/CD for the simulation stack: containerized build/test pipelines; standardized dev commands; automated bare-metal/VM provisioning with Ansible, registry/image caching, and artifact versioning for reproducible parallel runs.
- Building an IDE assistant (MCP-powered RAG in Cursor) that executes repo-aware actions—search/grep, log tracing, status queries, and draft diffs—reducing triage and onboarding time.

HubSpot

January 2025 - May 2025

Software Engineering Co-Op — Systems

Boston, Massachusetts

- Led a full-stack migration of 50+ TB for 18 video teams from a third-party vendor to on-prem Synology NAS (SMB), saving HubSpot over \$30,000.
- Engineered and deployed internal Slack apps using Python and custom webhook-based libraries to automate Coupa payment reimbursements and bulk invite flows; integrated with LDAP, handled high call volume, and optimized performance with manual garbage collection and memory control.

Practical Venture Capital

May 2025 - August 2025

Software Engineering Intern — AI

Palo Alto, California

- Built a browser LLM pipeline for a VC fund-of-funds: parse quarterly reports (PDF→images), extract/normalize holdings, score materiality, and one-click publish a provenance-tracked model to Google Sheets—replacing manual analyst workflows. (Claude vision, headless Chromium, async workers)

Wolters Kluwer

January 2024 - June 2024

Software Engineering Co-Op — Infra

Boston, Massachusetts

- Automated CI/CD and Kubernetes platform (Jenkins/Groovy, Helm, RBAC/Ingress, Terraform), cutting deploy times ~25% and standardizing rollouts for 27 teams with Prometheus/Grafana/ArgoCD

PROJECTS → graysoncooper.dev

audioart.ai

December 2023 – Present

San Francisco, California

- Architected and developed a full-stack AI web app that creates personalized music videos by synchronizing Stable Diffusion visuals to live song lyrics via LLM-generated prompts.
- Built backend services with Flask, Celery, Redis (plus a lightweight PHP service) to manage asynchronous image generation and real-time Spotify metadata/lyrics ingestion; responsive React front end for lyric display and synced transitions.
- Filed a USPTO patent covering the lyric → prompt → image synchronization method; live demo at audioart.ai.

EDUCATION

Northeastern University

M.S. Computer Science (accelerated) — GPA 4.0/4.0

September 2026 - December 2026

B.S. Computer Science & Economics

September 2022 – May 2026

SKILLS & INTERESTS

- **Skills:** Python, Java, JavaScript, SQL, R, HTML & CSS, React.js, Terraform, Kubernetes, Docker, C++, Flask, Bash, Linux, Cloud Infra, Stable Diffusion, Machine Learning, HPC, Systems Design.
- **Interests:** Road biking, Coffee, Woodworking, Deep Learning & Cloud Computing, Investing.