Nathaniel Boynick

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Education

Bachelor of Science in Computer Science — Aug 2020 — May 2026
Indiana University Bloomington — *Bloomington, IN, USA*

- GPA: 3.955/4.0 | Dean's List | Founder's Scholar | Hutton Honors Scholar
- Relevant coursework: Systems Programming (C, Unix), Artificial Intelligence, Algorithms and Complexity, Data Structures, Data Analysis & Data Mining, Autonomous Robotics, Computer Vision, Quantum Computing

Bachelor of Music in Harp Performance — Aug 2020 — May 2026
Indiana University Bloomington — *Bloomington, IN, USA*

- GPA: 3.955/4.0 | Founder's Scholar | Hutton Honors Scholar
- Relevant coursework: Harp Performance, Performance Practice, Masterclasses, Harp Ensemble, Harp Pedagogy, Orchestral Repertoire & Performance, Music Theory, Musicology, Electronic Music

German Abitur — Sep 2011 — May 2019
Werner-von-Siemens-Gymnasium — *Regensburg, BY, Germany*

- Final grade: 1.4
- Thesis: Sorting Algorithms: The Search for the Perfect Permutation

Projects

Listy (github.com/siru-ink/listy) — Jan 2026 — Present

- Designed and built a dynamic web server using a multi-app architecture with Django
- Customized Django's internal user system to meet application-specific requirements
- Ensured persistent application state through integration of a centralized PostgreSQL database
- Configured Caddy as a reverse proxy and static file server to optimize deployment

Rusty-Cart (github.com/siru-ink/rusty-cart) — Dec 2025 — March 2026

- Developed a dynamic web server featuring shopping and to-do applications using server-side rendering
- Implemented a secure authentication system to protect user data and privacy
- Maintained application state using multiple SQLite databases with sqlx
- Deployed NGINX as a reverse proxy to support scalable backend operations

Mnemosyne Journal (github.com/siru-ink/mnemosyne-journal) — Oct 2025 — Present

- Designed and implemented a graphical journaling application using Python's Tkinter framework
- Integrated AES-256 encryption and Argon2-based key derivation for secure data protection
- Packaged the application for macOS (App Bundle) and Windows (executable), enabling cross-platform distribution
- Implemented automatic detection of system dark/light mode for improved user experience

Work Experience

Instrumental Mover Coordinator — June 2022 — July 2022
USA International Harp Competition — *Bloomington, IN, USA*

- Provided technical harp support for an international music competition with 45 participants from multiple countries
- Coordinated the timely and performance-ready placement of all instruments on stage
- Managed smooth backstage and on-stage operations during live performances
- Resolved urgent technical issues under time pressure in close collaboration with event organizers

Technical Skills

- **Programming Languages:** Go, Rust, Python, Java, C
- **Technologies:** Rocket.rs, Django, Flask, NGINX, Caddy, Git, PostgreSQL, SQLite, Unix, Zed, LibreOffice, Typst
- **Languages:** German (native), English (native), French (working-proficiency)