Jakob Langtry

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Full-stack software engineer with experience spanning web and embedded systems; dedicated to craft through personal and open-source projects, with leadership experience in being President of the RIT Society of Software Engineers.

Education

Rochester Institute of Technology | *B.S. Software Engineering* — **May 2026**
Corning Community College | *A.S. Computer Science* — **Dec 2021**

Experience

WeTheHobby | *Software Engineering Co-op* — **Jun 2025 – Present**
Technologies: React, TypeScript, C#, .NET, ASP.NET Core, MUI, AWS, SQL, Streaming Infrastructure, Cursor
- Created user management page and refactored user system (CQRS) in the admin portal; eliminated manual database user creation.
- Added I/O virtualization; reduced stream recovery to ~30s of dead air from 5 minutes of stream loss; removed single-failure points.
- Implemented Markdown descriptions app-wide; editable and bulk-editable flows via custom `IDescribable`.
- Operated across frontend, backend, and streaming in a fast-paced startup environment.

Precision Optical Technologies (Purchased by Belden) | *Software Engineering Co-op* — **Aug 2024 – May 2025**
Technologies: C, C++, Make, Unix, Netconf, RPC, SNMP, Optical Networking, YANG
- Enabled breakout mode for QSFP NNI ports; migrated SNMP tables to 2.0 OID range.
- Created polling worker monitoring admin state/transceiver presence; triggered alarms and LED state updates.
- Replaced fan control code with synchronized bank selects; reduced fan noise and improved reliability.

Apple, Inc. | *Product Specialist* — **Oct 2023 – Feb 2024**
- Learned critical time management; handled dense part-time work while attending school full-time.
- Assisted customers daily with device setup and tailored solutions; consistently hitting sales targets.

Hardinge, Inc. | *IT/Computer Science Intern* — **Jun 2021 - Aug 2021**
- Sole programmer on initiative; implemented software-vendor metrics tooling on legacy systems.
- Developed a system to auto-display PowerPoints on dozens of factory TVs.
- Provided IT helpdesk support to hundreds of employees monthly.

Leadership

President | *RIT Society of Software Engineers* — **Aug 2024 – May 2025**
- Finished website rework of sse.rit.edu; replacing Campusgroups and google drive for club management.
- Bolstered alumni relations; got hundreds of alumni from 2005-2025 to put their contact information on the website.
- Secured lab renovation; won approvals despite red tape; modernizing member space. 40000$ renovation budget 5 year long project.

Projects

BeyondRGB | *RIT Senior Project (Open Source)* — **Oct 2025 – May 2026**
Technologies: C++, Electron, React, TypeScript, CMake, vcpkg
- Contributed to a spectral imaging desktop app for museum art archiving (43 stars); drag-and-drop import, OS-synced theming, settings UI refactor, blob memory leaks, and backend error propagation.

WebsiteTheSSEquel | *sse.rit.edu (Open Source)* — **Jan 2026 – Present**
Technologies: Next.js, TypeScript, Prisma, NextAuth, Tailwind CSS, PostgreSQL
- Contributed production features; role-based OAuth scopes, invite flow, event/attendance tooling, mentoring/mobile fixes, and mass-email/event-link improvements.

ReadFaster | *Personal Project* — **Jan 2026 – Feb 2026**
Technologies: Swift, SwiftUI, SwiftData, PDFKit, SwiftSoup
- Built RSVP speed-reading app for iOS/macOS; TXT/EPUB/PDF support, adaptive pacing, chapter navigation, and comprehension-focused controls.

Delegative Strategy Game | *Personal Project* — **Dec 2025 – Jan 2026**
Technologies: Python, Textual, Rich, Pydantic, HTTPX, Agentic Tool Calling, OpenRouter API
- Agentic AI Tool Call Game Framework; agent creates game world state based on natural language interactions with the user.

Playlist Converter | *Personal Project* — **Nov 2025 – Dec 2025**
Technologies: Next.js, React, TypeScript, Tailwind CSS, PostgreSQL, Drizzle ORM, Spotify OAuth, Apple MusicKit
- Built Spotify/Apple Music playlist conversion; ISRC matching, fuzzy fallback, manual matching, and shareable expiring links.

React Kanban Board | *Personal Project* — **Feb 2025 – May 2025**
Technologies: Next.js, React, TypeScript, Prisma (MySQL), NextAuth, Tailwind CSS, ShadCN UI, Nodemailer, Zod
- OAuth-secured shared boards with invites/resets, drag-drop UI, comments/markdown/attachments, and JSON Merge Patch updates.

Skills

Languages: C, C++, C#, Java, Python, Swift, TypeScript, JavaScript, SQL, Lua, Assembly
Frameworks & Libraries: React, Next.js, .NET, Electron, SwiftUI, Tailwind CSS, MUI, ShadCN UI, Prisma, Drizzle ORM, Angular, Vue
Data & Backend: PostgreSQL, MySQL, REST, Netconf/YANG, SNMP, RPC, Optical Networking, Streaming Infrastructure
Cloud & Tooling: AWS, Terraform, CI/CD, Unix/Linux, Maven, Make, Git, Cursor