Jakob Langtry

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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
- **Refactored user system (CQRS)** in the admin portal; eliminated manual database user creation.
- **Built bulk upload tooling** to import 10K+ row tab-delimited sheets into the new DB.
- **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 with editable and bulk-editable flows via custom `IDescribable`.
- **Trusted with critical infrastructure** across frontend, backend, and streaming in a fast-paced startup.
- **Participated in code reviews**: found bugs, improved implementation quality, and suggested fixes.

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 and 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 to reduce fan noise and improve reliability.
- **Contributed in Scrum**: stand-ups, sprint reviews, planning poker, and other engineering ceremonies.

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 while 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 — 2024 -- 2025
- **Finished website rework**: completed full rework of the SSE website at sse.rit.edu with new features and improvements.
- **Expanded sponsorships**: added 5 new corporate partnerships; funded events and internal tooling.
- **Secured lab renovation**: won approvals despite red tape; modernizing member space.

Projects

Playlist Converter | Personal Project — Dec 2025
Technologies: Next.js, React, TypeScript, Tailwind CSS, PostgreSQL, Drizzle ORM, Spotify OAuth, Apple MusicKit
- **Built Spotify/Apple Music playlist conversion** with 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.

Delegative Strategy Game | Personal Project — Jan 2026
Technologies: Python, Textual, Rich, Pydantic, HTTPX, Agentic Tool Calling, OpenRouter API
- **Built an AI-driven text strategy simulation** with natural-language orders, advisor dialogue, and time-based world-state progression.

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
Technologies: Swift, SwiftUI, SwiftData, PDFKit, SwiftSoup
- **Built RSVP speed-reading app** for iOS/macOS with TXT/EPUB/PDF support, adaptive pacing, chapter navigation, and comprehension-focused controls.

Skills

Programming Languages: C, C++, C#, Java, Python, Swift, Lua, Assembly, SQL, Terraform, JavaScript, TypeScript
Other Relevant Skills: IT Helpdesk, Maven, CI/CD, Unix Shell, Linux, Angular, Vue, React, AWS, .NET, Netconf