

Jakob Langtry

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Education

Rochester Institute of Technology | B.S. Software Engineering
Corning Community College | A.S. Computer Science

May 2026
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; *migrated data 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; *editable and bulk-editable flows via custom IDescribable.*
- Trusted with critical infrastructure across frontend, backend, and streaming; *fast-paced startup environment.*
- 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; *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.*
- 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; *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 of sse.rit.edu; *new features and improvements across the full stack.*
- Expanded sponsorships with 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; *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, Nodemaller, 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; *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; *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