

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* 2024 – 2025

- Finished website rework of sse.rit.edu; replacing Campusgroups and google drive for club management.
- 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, 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; 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

Languages: C, C++, C#, Java, Python, Swift, TypeScript, JavaScript, SQL, Lua, Assembly
Frameworks & Libraries: React, Next.js, .NET, ASP.NET Core, Angular, Vue, SwiftUI, Tailwind CSS, MUI, ShadCN UI, Prisma, Drizzle ORM, Zod
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