

# 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  
**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

- 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](http://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](http://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