

Jakob Langtry

Full-Stack Software Engineer (React, TypeScript, .NET)

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Experience

WeTheHobby | Software Engineering Co-op

Jun 2025 -- Present

Technologies: React, TypeScript, C#, ASP.NET Core, AWS, SQL, Streaming Infrastructure

- Refactored the admin portal user domain with CQRS, eliminating manual database user creation.
- Built bulk upload tooling for 10K+ row tab-delimited datasets, accelerating migration into the new database.
- Added stream I/O virtualization and failover handling, reducing recovery time from about 5 minutes to 30 seconds.
- Implemented reusable Markdown support through IDescribable, enabling editable and bulk-editable descriptions across the app.
- Owned critical frontend, backend, and streaming infrastructure changes in a fast-moving startup environment.

Precision Optical Technologies (Purchased by Belden) | Software Engineering Co-op

Aug 2024 -- May 2025

Technologies: C, C++, Unix, Netconf, RPC, SNMP, Optical Networking

- Enabled breakout mode for QSFP NNI ports and migrated SNMP tables to the 2.0 OID range.
- Built a polling worker for admin state and transceiver presence, triggering alarm and LED state updates.
- Replaced fan control logic with synchronized bank selection, improving thermal reliability and reducing noise.
- Shipped firmware features in a Scrum environment through stand-ups, sprint reviews, and planning sessions.

Apple, Inc. | Product Specialist

Oct 2023 -- Feb 2024

- Delivered high-volume customer support and solution guidance while balancing full-time coursework and part-time operations.

Hardinge, Inc. | IT/Computer Science Intern

Jun 2021 -- Aug 2021

- Built software-vendor metrics tooling as the sole programmer on a legacy-system initiative.
- Automated TV floor displays and supported internal IT operations for hundreds of monthly employee requests.

Projects

Playlist Converter | Personal Project

Dec 2025

Technologies: Next.js, React, TypeScript, PostgreSQL, Drizzle ORM, Spotify OAuth, Apple MusicKit

- Built Spotify-to-Apple Music playlist conversion with ISRC matching, fuzzy fallback, manual correction flows, and expiring share links.

React Kanban Board | Personal Project

Feb 2025 -- May 2025

Technologies: Next.js, React, TypeScript, Prisma, MySQL, NextAuth, Tailwind CSS

- Shipped multi-user boards with OAuth auth, drag-and-drop workflows, comments, attachments, and JSON Merge Patch updates.

WebsiteTheSSEquel | sse.rit.edu (Open Source)

Jan 2026 -- Present

Technologies: Next.js, TypeScript, Prisma, NextAuth, Tailwind CSS, PostgreSQL

- Contributed production features including role-based OAuth scopes, invite flows, event tooling, and reliability fixes for mobile/member workflows.

ReadFaster | Personal Project

Jan 2026

Technologies: Swift, SwiftUI, SwiftData, PDFKit, SwiftSoup

- Built an RSVP speed-reading app for iOS/macOS with TXT/EPUB/PDF ingestion, adaptive pacing, and comprehension-focused controls.

Leadership

President | RIT Society of Software Engineers

2024 -- 2025

- Led the migration of sse.rit.edu, replacing CampusGroups and Google Drive with custom club-management workflows.
- Expanded sponsorship through five new corporate partnerships to fund member events and internal tooling.

Education

Rochester Institute of Technology | B.S. Software Engineering

May 2026

Corning Community College | A.S. Computer Science

Dec 2021

Skills

Languages: TypeScript, JavaScript, C#, SQL, Python, C/C++, Swift, Java

Frameworks: React, Next.js, ASP.NET Core, Tailwind CSS, Prisma, NextAuth

Infrastructure/Tools: AWS, PostgreSQL, MySQL, CI/CD, Linux/Unix, Netconf, SNMP