

Jakob Langtry

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Full-stack software engineer building web and embedded systems, from shipping product features to debugging networked devices, with leadership experience as 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

StatPearls | Software Engineer, Contract

Jun 2026 - Present

Technologies: C#, .NET Framework, Entity Framework, SQL Server, PubMed/NCBI API, HtmlAgilityPack

- Maintaining the PubMed publishing pipeline; a C#/NET system syncing reference and CME content to PubMed/NCBI Bookshelf.
- Working across the .NET/SQL Server content tooling; author and CME data management, content archiving, and PubMed API integration.

CardHunt | DevOps Engineer, Contract

Mar 2026 - Present

Technologies: GitHub Actions, PM2, Nginx, AWS EC2, Docker, PostgreSQL, Redis, systemd, Bash, Node.js, TypeScript, Fastify

- Took ownership of deployment for a production sports-card aggregator (cardhunt.ai); built CI/CD with GitHub Actions, PM2 cluster mode, and Nginx/Let's Encrypt on AWS EC2.
- Stood up a hardened staging environment; Basic Auth, an isolated PM2 process, and symlink-based releases enabling instant rollback.
- Built production backup/recovery infrastructure; automated Postgres and Redis backups with SHA256 verification and retention via systemd timers, plus restore scripts, health-check deploy gating, and a runbook.

WeTheHobby | Software Engineering Co-op

Jun 2025 - Mar 2026

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

- Architected an admin user-management UI and CQRS refactor; eliminated manual database user creation from internal operations.
- Deployed I/O virtualization across the streaming stack; cut stream recovery from 5 minutes to ~30 seconds and removed single points of failure.
- Implemented Markdown description editing across the product; added editable and bulk-editable flows via a custom IDescribable interface.
- Shipped across frontend, backend, and streaming systems; worked end-to-end in a fast-moving 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 a 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

Hardinge, Inc. | IT/Computer Science Intern

Jun 2021 - Aug 2021

Projects

Albatross | Personal Project

May 2026 - Present

Technologies: Next.js, React, TypeScript, Bun, Convex, Clerk, Nylas, Vercel AI SDK, Stripe, Tailwind CSS

- Built a hosted AI mail client unifying Google, Microsoft, iCloud, and IMAP via Nylas; an agentic assistant drives 150+ typed tools — triage, summarization, compose, smart labels, task boards — over a Convex backend with Stripe billing.

BeyondRGB | RIT Senior Project (Open Source)

Oct 2025 - May 2026

Technologies: C++, Electron, React, TypeScript, CMake, vcpkg

- Debugged blob memory leaks and backend error propagation in a spectral imaging desktop app for museum art archiving (43 stars); also shipped drag-and-drop import, OS-synced theming, and a settings UI refactor.

TheSSEquel | sse.rit.edu

Jan 2026 - May 2026

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

- Contributed production features for the RIT SSE website; role-based OAuth scopes, invite flow, event management and attendance lists, mentoring schedule UX (incl. mobile fixes), and mass-email tooling.
- Security hardening and RBAC refactor; server-side authorization, stricter input validation, and expanded automated test coverage.

Treecaching | Personal Project

May 2026 - Present

Technologies: Swift, SwiftUI, MapKit, WeatherKit, CoreLocation, Convex, Clerk, APNs

- Built a real-time iOS geocaching app with live Convex sync; MapKit-based discovery, multi-stage cache progression, APNs push notifications, and role-based creator/player controls.

Playlist Converter | music.lab86.io

Dec 2025 - Present

Technologies: Next.js, React, TypeScript, PostgreSQL, Drizzle ORM, Spotify OAuth (PKCE), Apple MusicKit, Tailwind CSS

- Built a live Spotify/Apple Music converter with ISRC + fuzzy track matching, confidence scoring, a public API, iOS Shortcut, and share links.

Leadership

President | RIT Society of Software Engineers

Aug 2025 - May 2026

- Finished the rework of sse.rit.edu; replacing CampusGroups and Google Drive for club management.
- Bolstered alumni relations; got hundreds of alumni from 2005-2026 to put their contact information on the website.
- Secured lab renovation; won approvals despite red tape for a \$40,000, five-year project modernizing the member space.

Skills

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

Frameworks & Libraries: React, Next.js, .NET, ASP.NET Core, Prisma, Drizzle ORM, Electron, SwiftUI, Tailwind CSS, Convex

Infrastructure & Cloud: PostgreSQL, Redis, AWS, Docker, Nginx, PM2, Terraform, CI/CD, Unix/Linux, Git

Systems & Networking: Netconf/YANG, SNMP, RPC, Optical Networking, Streaming Infrastructure