

Luke Edwards

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EDUCATION

Rochester Institute of Technology (RIT), Rochester, NY
Bachelor of Science, Software Engineering
Dean's List: Spring 2025

Expected Graduation: May 2027

RELEVANT COURSEWORK

Current: Engineering Secure Software, Engineering of Concurrent and Distributed Software Systems, Engineering Cloud Software Systems, Linear Algebra

Completed: Web Engineering, Software Testing, Human Centered Requirements and Design, Software Process and Project Management, Engineering of Software Subsystems, Intro to Software Engineering

SKILLS

Languages: TypeScript, JavaScript, Python, Java, C, C++, HTML, CSS **Frontend:** React, Next.js, Angular, Tailwind CSS, Framer Motion, D3.js, JavaFX

Backend: Node.js, Express.js, FastAPI, Flask, Spring Boot **DevOps:** Docker, Git, GitHub Actions, CI/CD, Railway, Supabase, Vercel, Vercel KV (Redis), DNS Management

Desktop: Electron, Electron Builder **APIs:** Google Sheets API, Google Places API, Spotify API, ESPN API, Nodemailer, Cloudflare Turnstile, Tesseract OCR, MCP

Databases: PostgreSQL, PostGIS, SQLite **Testing:** Jest, JUnit, Pytest **Design:** Figma, UI/UX Design **Other:** Machine Learning, Microservices, Object-Oriented Design, Backtracking Algorithms, Agile Methodologies, Scrum, SEO

WORK EXPERIENCE

Full-Stack Developer Co-op | Autocoach LLC

August 2025 – December 2025

- Developed and launched satispie.com, a marketing website showcasing artisan pie products and distribution partnerships
- Created internal communication tools for customer outreach and built accessible customer contact records system using Google Sheets API, leveraging familiar technology instead of complex database infrastructure
- Developed internal automation tools using Python, Node.js, and Electron, reducing data processing time by 15+ hours per week and eliminating manual email workflows
- Collaborated cross-functionally with sales, maintenance, and accounting teams in a 2-person development team, delivering features aligned with business objectives

PROJECTS

MetaManager – *Electron, TypeScript, Node.js, React*

2025

- Built cross-platform desktop application for audio metadata and cover art management with resilient batch processing that handles partial failures gracefully
- Created unified interface supporting multiple audio formats (MP3, FLAC, WAV) with IPC communication bridge between React frontend and Node.js backend

wheredoieat – *Python, FastAPI, Next.js, PostgreSQL, PostGIS, Machine Learning*

2025

- Built full-stack restaurant recommendation application with Content-Based Filtering and Multi-Dimensional Weighted Scoring algorithm combining six weighted features (cuisine 40%, dietary 25%, price 15%, location 10%, rating 5%, features 5%)
- Developed Exponential Moving Average (EMA) algorithm for preference learning and context-aware scoring with multipliers for different occasions
- Designed scalable architecture processing up to 500 candidate restaurants per request using PostGIS geospatial queries, deployed as microservices on Vercel and Railway

Portfolio Site – *Next.js 16, TypeScript, Tailwind CSS, D3.js, Framer Motion*

2025

- Designed modern portfolio website with custom neumorphic design system, interactive D3.js project graph visualization, and secure contact form with Cloudflare Turnstile CAPTCHA and formula injection protection
- Built Google Sheets integration for form archiving with input sanitization, developed "Now" page with live data integration (weather, music), and optimized for performance with Lighthouse CI and SEO

PDF-y & PDF-y Lite – *Python, FastAPI, Docker, OCR, MCP, Claude AI*

2025

- Developed Model Context Protocol (MCP) server enabling LLMs to analyze PDFs via JSON-RPC 2.0, with hybrid text extraction pipeline (pdfplumber, PyMuPDF, Tesseract OCR) achieving 99.5% accuracy in 2 seconds
- Built advanced table detection system and dual-personality architecture serving both MCP interface and RESTful HTTP API, containerized with Docker, Redis caching, and Nginx load balancing