

# ADIN SCHMIDT

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## HIGHLIGHTS

- Driven software developer with over 5 years of professional experience.
- Led the development of a big data anomaly detection application, guiding architectural decisions and task delegation.
- Experienced in RESTful backend development, data processing, embedded systems, and automation.

## TECHNICAL SKILLS

**Languages:** Go, Python, TypeScript, Rust, C, C++

**Specializations:** REST API design, data processing, automation

**Libraries and Tools:** Tailwind CSS, Git, Docker, GitLab CI, Jira

**Frameworks:** React, Next.js, NestJS, Node.js

**Databases:** PostgreSQL, SQLite, Supabase

## EXPERIENCE

### Civic Tech Waterloo Region

Nov. 2025 – Present

*Technical Lead & Mentor (Volunteer)*

*Kitchener, ON*

- Establish professional development standards, including agile workflows, code reviews, and product management practices, to improve project delivery and sustainability.
- Mentor junior developers and students on software design patterns, coding best practices, and the full software development lifecycle.
- Architect and develop the 'GO Train Group Pass' application using Next.js, React, NestJS, and Supabase to facilitate group travel coordination.
- Define technical roadmaps and development processes, utilizing industry experience to guide architecture and product management.

### Independent Developer

Aug. 2024 – Present

*Freelance / Independent Projects*

*Remote*

- Developed a custom web application for a private client in Hugo to host static content.
- Engineered multiple full-stack applications to master Rust, TypeScript, and LLM integration patterns, resulting in the release of several open-source tools.

### Backend Software Developer II | Sandvine

Jan. 2021 – Aug. 2024

*Lead Developer & Product Owner of Alert Engine*

*Waterloo, ON*

- Architected and implemented a big data anomaly detection application using machine learning techniques, while coordinating design decisions and task delegation within a large team.
- Created a full-stack internal tool in React/Go to expedite traffic simulation during testing.
- Led daily scrum meetings for a cross-functional team, contributing to successful on-time releases for three major product updates.
- Designed CI/CD pipelines and streamlined repository setup using GitLab CI, establishing a one-hour developer onboarding experience.
- Mentored junior developers, conducted code reviews, and enforced coding standards to maintain high-quality codebase.
- Expanded capabilities of a performance-critical distributed system written in C, enabling the ingestion of new data types.
- Replaced manual API data extraction and normalization (previously taking hours) with automated scripts, delivering consolidated reports to product managers in seconds.

### Embedded Software Engineer (Co-op) | Tesla

Jan. 2020 – Apr. 2020

*Supercharger Team*

*Palo Alto, CA*

- Created and modified embedded C code and CAN DBC files to send and receive multiplexed data with the vehicle as well as within charger components.
- Interpreted and diagnosed CAN bus signals from physical charge tests involving spoofing faults to ensure correct recovery behaviour and system robustness.
- Researched integration of Software-in-Loop testing into the existing simulation framework to enable automated testing.

### Software Engineer (Co-op) | Inscopix

Sep. 2019 – Dec. 2019

*Sole Developer & Product Owner of data processing software*

*Palo Alto, CA*

- Shipped multiple features under a tight deadline as product owner of a data processing application.
- Designed and implemented core neuroimaging data processing features for software that was showcased at the Society for Neuroscience 2019 conference.

- Implemented algorithm for detecting brain cells in three-dimensional video based on communications with data scientists, and accelerated workflow for customers by creating Python and Matlab APIs.
- Enhanced cross-platform UI with Qt components to enable use of the new algorithm.

### **C++ Developer (Co-op) | Dejero**

Jan. 2019 – Apr. 2019

*Blended connectivity product*

*Waterloo, ON*

- Improved speed and reliability of the Dejero GateWay by adding multithreaded multi-server DNS requests with use of the Boost and STL C++ libraries.
- Streamlined modem troubleshooting by adding command-line functionality to monitoring tools on the GateWay's custom Debian-based OS.

### **Software Developer (Co-op) | McAfee**

May 2018 – Aug. 2018

*User interface team*

*Waterloo, ON*

- Implemented and owned data driven automation suites using Python/Selenium to ensure user experience and crucial information delivery.
- Enhanced in-house scripting language with development of new commands and syntax highlighting.
- Supported transition from SVN to Git by providing tutorials and troubleshooting for team members.

### **Quality Assurance and Web Automation Developer (Co-op) | SAP**

Jan. 2017 – Apr. 2017, Sep. 2017 – Dec. 2017

*Test Automation*

*Waterloo, ON*

- Developed automated tests with Python/Selenium and created SQL statements for SAP web applications.
- Installed and maintained Windows, Linux, and macOS testing servers for QA team.
- Supervised automated testing suites and diagnosed failures.
- Created Python, Bash, and Batch scripts to automate tasks and provide diagnostic insight.
- Debugged Java and C++ code and worked with RDBMS on Windows and Linux operating systems.
- Formed detailed reports of bugs in the SQL Anywhere software suite.

## **PROJECTS**

### **Discord Bot | TypeScript, Discord.js, LLM APIs**

2024 – Present

- Built a Discord bot featuring an agentic LLM architecture for automated community engagement.

### **File Optimization Utility | Rust**

2024 – Present

- Developed a file optimization utility implementing lossless compression techniques to enable users to reclaim storage space with no tradeoffs.

### **Recall | Rust, SQLite, Tesseract OCR, Nucleo, Clap**

Oct. 2023 – Present

- Developed a high-performance CLI tool in Rust to index and fuzzy search text content within local image collections.
- Integrated Tesseract OCR (via 'leptess') to extract text from various formats including PNG, JPEG, WEBP, and HEIC.
- Architected a local SQLite database to cache OCR results, enabling instant search queries without re-processing images.
- Implemented advanced fuzzy matching using the 'nucleo' engine to locate images based on imperfect text queries.

### **AI Translator | JavaScript, Chrome Extension API, Tailwind CSS, LLM APIs**

Jan. 2024 – Present

- Built a Manifest V3 Chrome extension allowing users to translate web pages using customizable LLMs (OpenAI, Anthropic, Gemini).
- Engineered a DOM traversal algorithm to translate text nodes in-place, preserving HTML structure, links, and styling.
- Developed a configuration dashboard using Tailwind CSS for managing API keys, model selection, and custom endpoints.
- Implemented context menu integration for translating specific text selections via popups or processing entire pages in batches.

## **EDUCATION**

### **University of Waterloo**

Sep. 2015 – Aug. 2020

*Bachelor of Computer Science, Honours Co-op*

*Waterloo, ON*