Luigi Girke

GIRKE.DEV

Halifax, NS | +1 (902) 943-0714 | job@luigigirke.com | linkedin.com/in/luigigirke | github.com/devdogfish | luigigirke.com

Summary

- Software Developer Intern at RBC Capital Markets, building an all-in-one website and marketing platform for the Global Head of Digital Technologies; **2+ years** of development experience (2024–2026) at a global investment bank and at software agencies in Canada and Portugal.
- Cut website content searches at RBC from hours or days to **under 1 hour** with a crawler that stores **3,500+ pages** per scan and rebuilds each page with accessibility, SEO and performance issues marked on the affected elements.
- Moved from content publishing to building internal tools **within 3 months**; put the platform's first version into the test environment in **2 weeks**.
- Collaborated with **20 other developers** on an internal client-onboarding app, writing front-end and back-end unit tests and reviewing and merging pull requests.
- Launched a signup and invoicing app for a Dutch go-karting school as the only developer; **~50 active users** since its recent launch.

Tools and Languages

Languages: TypeScript, JavaScript, Python, SQL, PHP, HTML, CSS, XML, XSL

Databases: PostgreSQL, SQLite

App development: React, Next.js, FastAPI, Express.js, Node.js, Prisma, Playwright, Model Context Protocol (MCP)

Websites: OpenText TeamSite, WordPress, Advanced Custom Fields, Shopify, axe-core, Lighthouse

Other tools: Git, GitHub Actions, Docker, Nginx, Ubuntu, Tailscale, Active Directory, Microsoft Excel

Spoken languages: German (native), English (C2), Portuguese (B2)

Professional Experience

RBC Capital Markets | Bedford, NS

Software Developer Intern | May 2026 - Present (ends Dec 2026)

Global investment banking business of Royal Bank of Canada with 7,648 full-time equivalent staff, 55 offices in 16 countries and C$14.4 billion in revenue in fiscal 2025.

- Member of the Digital Technologies team (**~80–90 people**) in Quantitative Technology Services (QTS), RBC Capital Markets' technology group; work covers **4 websites**: rbccm.com, rbcis.com and 2 internal sites.
- Moved from content publishing to building internal tools **within 3 months**. RBC analytics demo
- Building an all-in-one website and marketing platform for the Global Head of Digital Technologies with TypeScript, React, Python/FastAPI and SQLite; put the first version into the test environment in **2 weeks**. Built for marketing, SEO, accessibility, operations, web content and development teams; a director of operations already uses it.
- Built a Playwright crawler that stores server HTML, browser-rendered HTML and page assets; one recent scan covered **3,500 pages**, cutting content searches from hours or days to **under 1 hour**.
- Rebuilt each crawled page as a visual copy with axe-core and Lighthouse issues for accessibility, SEO and performance overlaid on the affected elements; compared scans to flag new or changed pages and linked each issue to a Deque fix guide.
- Connected the platform to the company AI gateway and added a chatbot that answers questions about the app's data, shows interactive content, opens pages and creates records; built an MCP server that gives AI tools access to the app's API.
- Built XSL components that pull OpenText TeamSite content records (DCRs) automatically, with pagination, limits and XML queries.

- Built **2 homepage campaign features**, a popup and a banner, for the internal site that staff see when opening a new browser tab; added rules to choose which appeared and connected the forms through TeamSite's API.
- Collaborated with **20 other developers** on an internal client-onboarding app; wrote front-end and back-end unit tests and reviewed and merged pull requests.
- Used Node.js and Express to collect website profile data and turn it into JSON, CSV and Excel files; maintained trackers for Marketing covering **~800 profiles** marked for removal.

Young Drivers Academy | Leiden, Netherlands (remote)

Software/Web Developer (Freelance) | Jul 2025 - Present

Dutch go-karting school providing driver coaching, race support and kart maintenance.

- Built the school's signup and invoicing app solo (TypeScript, Next.js, Prisma); recently launched with **~50 active users** and growing.
- Created **4 account types** with different pages and access: parents, drivers, mechanics and administrators.
- Replaced manual event registration records with online signup and pages showing participants, mechanic requirements and parts needed for events.
- Large codebase: ~58k LOC excluding tests, spanning 5 business modules, 67 pages, and 32 database models.
- Connected event signup to invoice creation and approval; used React-PDF to create PDFs, the Google Drive API to store them, and Resend to send app emails.
- Set up a CI/CD pipeline with GitHub Actions, deploying over Tailscale and SSH to development, test and live environments.

Apollotec.pt | Coimbra, Portugal

Full-Stack Developer | Summer 2025

Portuguese software and cloud services agency with a team of 9 people during the 2025 engagement.

- Built and launched an email-template app using React and Express.js as the only developer; the app was used across the **9-person company**.
- Connected the app to the Zoho API so employee details and job titles filled automatically, replacing manual copying.

ETPZP | Leiria, Portugal

DevOps/Full-Stack Developer | 2024 - 2025

Portuguese technical and vocational school. Open source: github.com/devdogfish/etpzp-sms

- Built an emergency text-messaging system as the only developer using Next.js, TypeScript, GatewayAPI and PostgreSQL, with scheduled and bulk sending, contacts, message history and an admin analytics dashboard in English and Portuguese.
- Connected sign-in to the school's existing Active Directory accounts with separate user and administrator access; installed the app on a school-owned computer using Docker and Nginx inside an Ubuntu virtual machine.
- First fully independent project

Hope Media House | Vancouver, BC

Frontend/WordPress/Shopify Developer | Summer 2024

Vancouver web and software agency with 8 employees during the 2024 engagement. Served ~7 clients, including enterprise clients.

- Reported directly to the owner and built WordPress features and Shopify themes for **4 clients** (Baden, Beautifi, DonChendo and Sitings), turning designers' mockups into web pages that adjust to different screen sizes.
- Built Sitings.ca's live property map (sitings.ca/property) as the main developer using PHP, JavaScript, AJAX, WordPress custom post types and Advanced Custom Fields.
- Added Google Maps, search filters, grouped map markers and property cards that update through AJAX without reloading the page; the map lists **274 available and completed properties** as of November 2026.

Education

Dalhousie University | Halifax, NS

Bachelor of Computer Science | Expected 2029 | GPA 4.24/4.3