

Ryan Spice-Finnie

Senior Software Engineer

Frontend architecture, full-stack development and technical leadership

contact@ryanspice.com | +1 226 504 2776

ryanspice.com | GitHub | Technical writing

linkedin.com/in/ryan-spice-finnie-510a295b

London, Ontario | Toronto hybrid and Canada-remote opportunities

Professional summary

Hands-on software engineer with more than a decade of frontend-focused full-stack experience across enterprise platforms, customer-facing products and independent consulting. I modernize legacy applications, establish shared frontend architecture, implement authentication and APIs, and deliver accessible interfaces using JavaScript and TypeScript, Angular, React and Svelte.

I work directly with architects, product owners, developers and clients to turn requirements into working software. At ADESA, I owned a modular frontend adopted by other teams. At Indegene, I helped hire and lead developers and delivered Angular applications to Android and iOS, including WebRTC and offline synchronization.

My experience includes legacy application modernization, shared component architecture, authentication, APIs, accessible interfaces, testing and cloud delivery. Recent Canopy Digital work combines direct client delivery with practical AI tooling, custom harnesses and scoped agent orchestration.

Technical skills

Frontend architecture: JavaScript, TypeScript, Angular, React, Preact, Vue, Svelte/SvelteKit, native Web Components, HTML and CSS/SCSS; micro-frontends, SSR and prerendering.

Services and integration: Node.js, NestJS, PHP, SQL/MySQL, REST, GraphQL, OAuth/OpenID Connect; legacy .NET application environments, Java Spring maintenance, WebSockets, WebRTC, postMessage and offline synchronization.

Cloud and delivery: Hands-on Azure delivery since 2024: containers, Static Web Apps, CDN, Storage and OAuth/MSAL; earlier Microsoft/.NET environments; AWS/GCP project experience, Docker, Git, Jenkins, Webpack and Vite.

Quality and collaboration: AODA/WCAG implementation, Storybook, Vitest, Jest, Mocha, Chai, Jira, Agile delivery, technical documentation, hiring, mentoring and client collaboration.

Applied AI: Custom harnesses, Model Context Protocol (MCP), API tools, model routing and agent orchestration; independent review, shared execution budgets and deterministic verification.

Graphics and mobile: Canvas API, ImageData, Ionic and Cordova; recent Three.js, PixiJS 8 and rendering-performance tuning. C++ foundation through game-development education.

Recent professional experience

Canopy Digital

Principal Engineer | Aug 2024–Present

- Develop client websites and web applications with TypeScript, SvelteKit, PHP and API-backed services. Recent work includes TCM Acupuncture, Black Cedar Designs, Lancaster FBC and 519 Trough & Exterior.
- Deployed three websites to Azure during independent contracts since 2024, using container deployments and Azure Static Web Apps with CDN delivery and Azure Storage.
- Work with Azure OAuth/MSAL, Cloudflare Workers and payment integrations including Stripe and Moneris. Deployed a Shopify demonstration site at shop.canopydigital.ca.
- Design Fugu Fusion, a local orchestration protocol informed by OpenRouter Fusion and Sakana Fugu research, with scoped delegation, shared execution budgets, provider routing and spend controls.
- Build custom AI harnesses with Model Context Protocol (MCP) and API tool integrations, and develop the public Canopy Digital Fusion workspace. Use independent review and deterministic checks to assess changes.

Technical environment: TypeScript, JavaScript, SvelteKit, PHP, REST APIs, Azure containers and Static Web Apps, CDN, Storage, OAuth/MSAL, Cloudflare Workers, Stripe, Moneris, Shopify demonstration deployment, MCP and AI harnesses.

AutoTrader.ca

Full Stack Engineer | 2024 · 6/m

- Led homepage implementation with server-side rendering and prerendered components on Azure Static Web Apps, including work with an Angular 19 prerelease.
- Collaborated with architects and team leads on modernization while maintaining legacy Angular 8/9 components in a .NET 4 solution.

Technical environment: Angular 19 prerelease, server-side rendering, prerendering, Azure Static Web Apps, legacy Angular 8/9 and .NET 4.

Pizza Pizza Limited

Angular Deployment Specialist | Pizza 73 | Nov–Dec 2023

- Upgraded Pizza 73 from Angular 8 to Angular 17, updating build and serve workflows and Ivy rendering with Webpack, Express, Bootstrap and related dependencies.

Technical environment: Angular 8 to Angular 17, Ivy, Webpack, Express, Bootstrap, build and serve workflows.

Ontario Cannabis Store

Senior Full Stack Engineer | Mar–Oct 2022

- Owned a React administration application replacing a legacy Ruby frontend, using Storybook and design specifications to support consistent components and AODA/WCAG 2.1 requirements.
- Delivered customer-facing search functionality to the live Shopify storefront.

Technical environment: React, Storybook, Shopify, AODA, WCAG 2.1, administration interfaces and customer-facing search.

Platform and full stack experience

Tracer Canada / Mark8t

Independent Full Stack Engineer | COVID-era 6/m build; later platform work

- Created a multi-tenant contact-tracing application using Svelte and PHP, with QR-code access and restaurant menus.
- Later Tracer/Mark8t work included white-label websites, hosting and e-commerce with SvelteKit, Azure AD authentication and direct small-business collaboration.

Technical environment: Svelte, PHP, QR codes, multi-tenancy and hosted menus; later SvelteKit, Azure AD authentication and e-commerce platform work.

Manulife

Senior Full Stack Engineer | Jun 2020–Mar 2021

- Developed customer login for the Travel business using ForgeRock/OpenID and Passport.js in an Adobe Experience Manager environment.
- Built accessible React and Storybook components and contributed to software design with an emphasis on AODA/WCAG requirements. Worked with NestJS and Swagger in the wider application environment.

Technical environment: React, Storybook, ForgeRock, OpenID Connect, Passport.js, AEM, NestJS, Swagger and accessibility.

Nobul

Senior Full Stack Engineer | Aug–Nov 2019

- Worked directly with the CTO on development plans and delivered autocomplete and client-tracking features using React and GraphQL, backed by Google Cloud Functions, with Jest for testing.

Technical environment: React, GraphQL, Jest, Google Cloud Platform, Google Cloud Functions, autocomplete and client tracking.

ADESA / Openlane

Senior UX Developer, then Senior Software Engineer | Feb 2018–Aug 2019

- Led server-side rendering for a micro-frontend solution and developed multiple frontend boilerplates. Owned a modular Webpack frontend adopted by other teams, presenting architecture and whiteboarding implementation approaches.
- Reverse-engineered the legacy Java OAuth authentication flow to build a frontend login system that worked with the existing backend.
- Worked across Vue, Preact, React, Angular and native Web Components in an AWS-hosted environment, using Mocha, Chai, Karma and Jenkins delivery workflows.

Technical environment: Webpack, SSR, micro-frontends, Vue, Preact, React, Angular, native Web Components, legacy Java OAuth, AWS, Mocha, Chai, Karma and Jenkins.

Earlier professional experience

Indegene

Front-End Developer and Team Lead | Nov 2016–Feb 2018

- Helped hire and lead one to six developers, contributing to a multi-tenant Angular application delivered to Android and iOS through Ionic and Cordova.
- Implemented WebSockets, WebRTC voice/video, Google APIs, offline synchronization and tenant-content sharing.
- Worked with the backend team in a Microsoft Azure and legacy .NET environment, with Salesforce among the business systems and Jira for delivery tracking.

Technical environment: Angular, Ionic, Cordova, Android, iOS, WebSockets, WebRTC, Google APIs, offline synchronization, multi-tenancy; Microsoft Azure and legacy .NET environment, Salesforce and Jira.

Goods and Services / G&S Branding

Full Stack PHP Developer | Jan–Jun 2016

- Built and maintained Drupal websites for Teva and Fairmont, including custom modules, Bootstrap/React components and French-language rollouts.
- Developed an interactive chair configurator for Nightingale Chairs using image layers and JSON data to represent chair options.

Technical environment: PHP, Drupal, Bootstrap, React, image layers, JSON, product configuration and French-language website rollouts.

FutureVault

Front-End Developer | Nov 2014–Oct 2015

- Built search/filtering, WYSIWYG editing and profile interfaces as the frontend evolved from WinJS to Bootstrap, React and Flux.
- Contributed to PHP/MySQL APIs and maintained Java Spring backend services, working across the interface and supporting services.

Technical environment: WinJS, React, Flux, Bootstrap, PHP, MySQL, Java Spring, search/filtering, WYSIWYG editors and profile interfaces.

LM Staffing

Full-Stack Developer | Jan–Apr 2014

- Developed an analytics application integrating Elasticsearch on CentOS with PHP and SQL in a custom LAMP environment.

Technical environment: PHP, SQL, Elasticsearch, CentOS and LAMP analytics applications.

Education and professional development

Video Game Design and Development, Yorkville University / RCC Institute of Technology, with a focus on C++ programming and project management. SAFe training and certification, 2019.

Additional engineering work

Earlier assignments include BMO accessibility work and a custom e-commerce solution for JTech. Authored SpiceJS, a Canvas-based JavaScript graphics library for games, and reusable Svelte/JavaScript packages. Recent independent graphics work includes Three.js, PixiJS 8 and rendering-performance tuning.