

# MICHAEL TAYLOR

Senior Front End Developer · Angular · RxJS · React · AI-Powered Interfaces · 20+ Years

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## ■ PROFESSIONAL SUMMARY

Senior Front End Developer with 20+ years of experience building responsive, scalable, and accessible web applications for government and enterprise clients. Expert in Angular 12+ and RxJS, with deep experience managing complex asynchronous data flows, real-time data visualization, and AI-powered front-end interfaces. Proven track record integrating UI components with RESTful APIs, WebSocket streams, and AI/ML inference APIs to deliver intuitive, data-driven user experiences. Experienced in Agile/Scrum environments, CI/CD pipelines, and cross-functional collaboration with backend and AI/ML engineering teams.

## ■ TECHNICAL SKILLS

**Core Frontend:** Angular (12–18), RxJS, React, TypeScript, JavaScript (ES6+), HTML5, CSS3, SCSS, Bootstrap, Tailwind CSS, Material UI

**AI & Data Viz:** AI/ML API Integration, Real-Time Data Streams (WebSockets, SSE), D3.js, Ag-Grid, Highcharts, NLP Interface Development, Prediction Result Rendering, Dashboard Development

**State & Arch:** RxJS Observables, NgRx, Component Libraries, Object-Oriented JavaScript, RESTful API Integration, GraphQL

**Backend & APIs:** Node.js, .NET Core, Java, Spring Boot, MySQL, SQL Server, Oracle, MongoDB, PHP

**DevOps & Tools:** Git, GitHub, GitLab, CI/CD, Agile/Scrum, JIRA, Confluence, Webpack, Vite, VS Code, IntelliJ, Eclipse

**Standards:** WCAG 2.1 / Section 508, SEO Best Practices, Web Security (OWASP), Responsive Design

## ■ PROFESSIONAL EXPERIENCE

### Senior Front End Developer

Mar 2024 – Present

Halvik / NASA • Greenbelt, MD

- Build responsive, scalable front-end interfaces for a federal procurement platform, integrating Angular components with AI-assisted data processing APIs to surface real-time procurement analytics and prediction results for NASA program staff.
- Develop and maintain complex asynchronous data flows using RxJS Observables, managing real-time data streams and WebSocket-based updates across multiple application modules.
- Architected a reusable Angular component library that standardized UI patterns across the team, reducing feature development time by ~25–30% and improving code review consistency.
- Build intuitive dashboards and data visualization interfaces using both Angular and React, rendering large AI-driven datasets and inference results efficiently in the browser through lazy loading, virtual scrolling, and optimized change detection strategies.
- Integrate front-end components with RESTful APIs and AI/ML service endpoints, managing error handling, retry logic, and state management via RxJS operator chains.
- Lead CI/CD pipeline management using GitHub Actions and GitLab; enforce coding standards, accessibility compliance (WCAG 2.1 AA), and security best practices across the team.
- Collaborate cross-functionally with backend engineers, AI/ML teams, and non-technical agency stakeholders to define requirements and deliver production-ready features in Agile sprints.

**Stack** Angular 17/18, RxJS, React, TypeScript, Next.js, Node.js, Azure, REST APIs, WebSockets, Oracle, MySQL, GitLab, CI/CD, HTML5, CSS3, SCSS, Visual Studio, VS Code, IntelliJ, Eclipse

## Senior Front End Developer

May 2020 – Dec 2023

**The Coleman Group / USNA** • Greenbelt, MD

- Led Angular 17/18 development for public-facing and internal Naval Academy portals, building complex reactive interfaces with RxJS to manage multi-source data streams and role-based access flows.
- Built data visualization dashboards for internal reporting tools, integrating with .NET Core APIs and SQL Server to render tabular and chart-based data for administrative stakeholders.
- Implemented robust UI state management using RxJS Observable patterns for real-time content updates and async form workflows across multiple portal applications.
- Conducted code reviews, enforced Agile sprint discipline, and evaluated vendor deliverables for code quality and test coverage.
- Integrated Google Analytics and set up event tracking to surface user behavior insights for data-driven content decisions.

**Stack** *Angular 17/18, RxJS, React, TypeScript, .NET Core, Node.js, HTML5, CSS3, SCSS, JavaScript, SQL Server, SharePoint, Azure, Microsoft O365, VS Code, GitHub, Google Analytics*

## Front End Developer

Oct 2018 – Feb 2020

**ProSphere / Veterans Administration** • Alexandria, VA

- Built Angular 18 front-end interfaces for VA digital service applications, implementing reactive data flows with RxJS and integrating with REST APIs for real-time data rendering.
- Developed interactive data tables, online forms, and AI-assisted decision support interfaces; ensured all deliverables met Section 508 / WCAG 2.1 accessibility standards.

**Stack** *Angular 18, RxJS, TypeScript, JavaScript, Bootstrap, Material UI, HTML5, CSS3, .NET, Git, GitHub*

## Principal Programmer

Aug 2015 – Jul 2018

**General Dynamics IT (GDIT) / Verscend** • Towson, MD

- Led front-end development of enterprise reporting SPAs in AngularJS and Angular 6/7, implementing complex data visualization dashboards with RxJS-driven async data flows and chart rendering for large healthcare analytics datasets.
- Migrated a legacy AngularJS platform to Angular 6/7 with TypeScript, introducing RxJS-based state management and CI/CD deployment practices.
- Drove code reviews, unit testing, and Agile sprint management; mentored junior developers on Angular architecture and RxJS patterns.

**Stack** *AngularJS, Angular 6/7, RxJS, TypeScript, JavaScript, RESTful APIs, Bootstrap, HTML5, CSS3, Git, Java, Spring MVC, JIRA, Confluence*

## Front End Web Developer

Jul 2014 – Jun 2015

**Liquified Creative** • Annapolis, MD

- Designed and developed responsive client websites with JavaScript and jQuery; managed WordPress and Drupal CMS implementations.

**Stack** *JavaScript, jQuery, Bootstrap, HTML5, CSS3, PHP, MySQL, WordPress, Drupal*

## Webmaster Supervisor

Jan 2010 – Nov 2013

**Maryland Dept. of Transportation** • Hanover, MD

- Managed maryland.gov and multiple state portals; led UX/UI design, content governance, and Google Analytics instrumentation across statewide digital properties.

**Stack** *JavaScript, jQuery, HTML5, CSS3, ASP, ColdFusion, WordPress, SharePoint, Google Analytics*

## Web Architect

*Dec 2008 – Dec 2009*

**The Universities at Shady Grove** • Darnestown, MD

- Maintained academic web portal; built SQL databases for scheduling systems and analyzed site performance via Google Analytics.

**Stack** *SQL Server, ColdFusion, Google Analytics, HTML, CSS*

## Web Coordinator

*Aug 2007 – Sep 2008*

**Retirement Living TV** • Columbia, MD

- Managed full website redesign project; led sitewide operations and staff training on HTML and CMS workflows.

**Stack** *HTML, CSS, CMS, JavaScript*

## Web Developer

*Jan 2004 – Feb 2007*

**University of Maryland University College** • Hyattsville, MD

- Developed online course templates and web documents for undergraduate programs using Dreamweaver, JavaScript, and Photoshop.

**Stack** *HTML, CSS, JavaScript, Dreamweaver, Photoshop*

## Internet Site Director

*Sep 2000 – Sep 2003*

**WMAR-TV** • Baltimore, MD

- Directed development and operations of award-winning news website insidebaltimore.com (now abc2news.com); managed web department staff and budget.
- Produced and distributed station video content online; managed special digital projects alongside day-to-day site operations.

**Stack** *HTML, CSS, JavaScript, ColdFusion, CMS*

## ■ EDUCATION & CERTIFICATIONS

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**B.S., Computer Science** — Morgan State University, Baltimore, MD

**CompTIA Security+ CE** — Issued April 2021 · Candidate ID: COMP001021757831