

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.
- Developed front-end interfaces tightly integrated with .NET-based reporting and data pipeline services, working across the stack to troubleshoot API response handling and optimize data rendering performance.
- 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, .NET Core 1.1/2.0, 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.
- Developed and maintained MDOT's internal intranet using ASP.NET and Entity Framework, building data-driven departmental tools and content workflows that surfaced operational reporting and agency resources to staff across multiple divisions.

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

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

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