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SUMMARY

Senior front-end engineer with 20 years of software development across banking, healthcare, telecommunications, and heavy-duty automotive. Currently the UI development and architecture lead at a top-five US bank, where I built the Angular component library and SASS framework now used by teams across the organization and led accessibility remediation to WCAG AA and AAA — including a theme generator that surfaces live contrast ratings inline, so conformance is caught at design time rather than in audit. Earlier in my career I wrote embedded vehicle diagnostics over J1939, J1708, and CAN — including a diagnostic kiosk deployed nationwide and the end-of-line test software that verified hardware on the manufacturing line. That combination of accessible, modern front-end architecture with firsthand vehicle systems and production tooling maps directly to internal commercial and enterprise products. Comfortable translating technical concepts for non-technical stakeholders and delivering in fast-paced, cross-functional teams.

CORE SKILLS

Languages: TypeScript, JavaScript (ES6+), HTML5, CSS3, SASS/SCSS, C, C++, C#, PHP, Python, SQL

Front-End: Angular (v1 through v20), React, Next.js, RxJS, Tailwind CSS, ExtJS 4/5/6, Storybook, AG-Grid, Kendo UI, Material Design 3, Highcharts, JointJS

Accessibility: WCAG 2.1 AA and AAA conformance, contrast auditing and tooling, semantic HTML, keyboard navigation, focus management, ARIA, accessible design tokens and theming

Architecture & Practice: Front-end architecture, design systems, shared component libraries, Material Design 3, MVVM and MVC patterns, responsive design, performance optimization, code review, technical mentoring, Agile/Scrum

APIs & Back-End: REST API design and integration, Node.js, NestJS, TypeORM, PostgreSQL, MySQL, .NET, HL7 v2.x (ADT/ORM/ORU)

Testing: Playwright (end-to-end), unit and integration testing, end-of-line hardware test automation

Cloud & Tooling: AWS (Lambda, DynamoDB, S3, CloudFront, SES, API Gateway), Azure, Vercel, Git, GitLab, Jenkins, Jira, Figma, GitHub Copilot, Claude Code

Vehicle & Embedded: J1939, J1708, CAN, MIL-STD-1553, VxWorks 653 / ARINC 653, Qt, real-time systems

PROFESSIONAL EXPERIENCE

Bank of America — Charlotte, NC

Oct 2022 – Present

Senior Front-End Developer (Contract) — Team Lead, UI Development & Architecture

- Lead UI development and architecture for enterprise web applications used across the bank.
- Designed and built a custom Angular component library adopted by multiple teams organization-wide, establishing shared patterns for grids, charts, forms, and navigation.
- Led accessibility remediation across the UI portfolio, bringing components and applications to WCAG 2.1 AA and to AAA where required — semantic structure, keyboard navigation, focus management, ARIA, and color contrast.
- Designed and built a theme generator that renders live WCAG contrast ratings and conformance checks inline as colors are chosen, moving accessibility failures from post-hoc audit into the design step. Built on Material Design 3 tokens and Tailwind CSS.
- Created a SASS framework that brought consistency to UI implementation across applications, working from provided wireframes.
- Drove adoption of Tailwind CSS and Storybook, giving teams a living component catalog and cohesive UI/UX across products.
- Integrated and extended AG-Grid, Material Design Components, Highcharts, and JointJS for data-dense internal dashboards and workflow tools.

- Partner with functional analysts to design complex features using Figma and DrawIO, translating technical constraints for non-technical stakeholders.
- Mentor junior developers on TypeScript, Angular, and SASS; established review practices that raised baseline code quality.
- Optimized project and build configuration to measurably increase developer productivity.

Intelligent Business Solutions — Winston-Salem, NC

Sep 2017 – Oct 2022

Senior Full-Stack Developer (Contract) — Healthcare Platform Modernization

- Converted a legacy 4D system to a modern MEAN-stack architecture on PostgreSQL, without interrupting daily clinical operations.
- Led development of patient registration, profile management, and clinical scheduling modules, improving workflow efficiency for clinical staff.
- Built longitudinal outcome dashboards visualizing multi-year patient data to support clinical decision-making.
- Implemented HL7 v2.x (ADT/ORM/ORU) integrations across EHR and lab systems, including data mapping, processing logic, and missing-data reporting.
- Designed interfaces for web form ingestion, email processing, and real-time compliance monitoring.
- Implemented AG-Grid and Kendo components across all platforms with custom SCSS themes supporting per-user display preferences.
- Set up GitLab and Jira with supporting workflows for the team, and migrated infrastructure to Azure.
- Brought enterprise engineering practice into a ten-person company without adding process overhead.

RJ O'Brien — Chicago, IL

Aug 2016 – Jul 2017

Senior JavaScript Developer (Contract) — Customer-Facing Trading Portal

- Owned front-end design and implementation for a customer portal used to purchase and manage commodity stock.
- Led the upgrade from ExtJS 3 to ExtJS 6 across the application.
- Solely responsible for theming across multiple portal brands; the work was scoped at three months before I arrived and delivered in two weeks by restructuring it around SASS inheritance rather than duplicated stylesheets.
- Reduced application load time and improved UX based on direct user feedback.
- Worked with Sencha's engineering team to resolve component defects, including bugs in their Linux builds.

AT&T — Durham, NC

Feb 2015 – Jul 2016

Lead JavaScript/PHP Developer (Contract) — Internal Diagnostic Tooling

- Owned design through deployment of internal web tools used by support staff to diagnose customer network issues.
- Converted a tangled HTML/jQuery/PHP codebase into a maintainable MVVM front end (ExtJS 5, later 6) on a PHP backend.
- Designed and implemented three-tier LDAP authentication and authorization.
- Partnered with a SQL architect to convert flat tables into a normalized relational schema, improving access patterns and eliminating redundant data.
- Introduced Agile/Scrum in place of waterfall and led daily stand-ups.
- Built the team's Git workflow plus scripts to provision developer environments and deploy to dev, UAT, and production on Linux.
- Recognized by upper management for speed of delivery and for simplified, reusable code.

Wells Fargo — Winston-Salem, NC

Mar 2014 – Dec 2014

JavaScript/PHP Developer (Contract) — Inventory & Licensing Platform

- Built web-based software used by DBAs to manage inventory and licensing data for every server company-wide.
- Primary developer for all licensing functionality, implementing the UI against an MVC architecture.
- Wrote mass-update scripts to transform large volumes of SQL data safely.

Noregon Systems — Greensboro, NC

Dec 2011 – Jan 2014

Embedded Software Engineer — Heavy-Duty Vehicle Diagnostics

- Designed, tested, documented, and deployed embedded applications for the automotive industry across the J1939, J1708, and CAN vehicle buses.
- Led a small team of engineers and testers through R&D delivery, most visibly a vehicle diagnostic kiosk deployed nationwide.
- Delivered firmware for the DLA+ vehicle adapter product line (DLA+, DLA+Wireless, DLA+PLC).
- Built end-of-line test software that verified hardware as part of the manufacturing process.
- Contributed to an on-request live video feed system deployed on metro bus fleets nationwide, developed in Qt for Xerox Transportation Systems.

Terma North America — Warner Robins, GA

Feb 2006 – Dec 2011

Embedded Software Engineer — Real-Time Systems (incl. assignment at Terma A/S, Århus, Denmark, 2007–2008)

- Developed real-time C++ for electronic warfare protection suites, from architectural design through delivery.
- Lead developer on an audio management system integrating multiple subsystems and forwarding data over MIL-STD-1553 to the avionics bus.
- Key engineer on a processor upgrade built against a VxWorks 653 partitioned operating system using the ARINC 653 standard.
- Coordinated daily stand-ups and built tooling that streamlined the team's development lifecycle and quality process.

SELECTED PROJECTS — DESIGNED, BUILT, AND OPERATED

- **wsssc.com** — League management platform handling team and free-agent registration, payments, multi-division scheduling, and live standings for an active sports league. Next.js and TypeScript on Vercel with DynamoDB, S3/CloudFront, and SES.
- **gounsaid.com** — Private couples check-in application pairing encrypted written reflections with an AI guide built on the Anthropic Claude API, plus an eight-dimension relationship radar visualization. Next.js, TypeScript, DynamoDB.
- **beathousepro.com** — Booking and event production platform including uRequest, a live song-request app used by guests during events. AWS SST, Lambda, DynamoDB.

EDUCATION

Bachelor of Science in Engineering, Computer Engineering — Mercer University, Macon, GA — December 2005

Coursework included data structures and algorithms, operating systems, computer networks, embedded systems design, control systems, digital signal processing, and software engineering with UML.

ADDITIONAL

US & NATO Secret clearance (inactive) • ITAR trained • Scrum software development process • CMMI Level 3 environments • DOORS requirements management • VxWorks 653 certified training