Desmond Achterberg Lead Angular Developer

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PROFILE SUMMARY

- **Lead Angular Developer** with **13 years** on **healthcare and SaaS front ends**, now the front-end lead for **7 clinical and patient apps** at **Jefferson Health**, with **40 engineers** in **6 teams**.
- Works across **Angular 21**, **TypeScript**, **Nx** with **Module Federation**, **NgRx** and **signals**, the **Angular CDK**, **Playwright** and **Jest**, plus **AngularJS** and **Angular Elements** on the apps still being moved.
- Known for **big migrations without downtime**: AngularJS to Angular, Karma to Jest and a shared **design system**, each shipped one route or one team at a time under **HIPAA** and **Section 508**.
- Works with **clinical informatics, security, privacy and EHR integration teams**, and brings front-end decisions to the **architecture review board**.
- Chairs the **front-end architecture review**, owns the **Angular coding standards**, mentors **6 senior engineers**, and sits on **hiring loops** for every front-end role.

TECHNICAL SKILLS

Angular & TypeScript:	Angular 21, TypeScript, AngularJS 1.8, Angular Elements, Angular SSR, signals
State & RxJS:	RxJS, NgRx Store, NgRx SignalStore, signals, Angular services
Forms & APIs:	Reactive Forms, HttpClient interceptors, REST APIs, FHIR APIs, OAuth 2.0 and OIDC
UI Libraries & Styling:	Angular CDK, Storybook, design tokens, HTML5, SCSS
Test Frameworks:	Jest, Playwright, Angular Testing Library, Jasmine and Karma (retired)
Performance & Accessibility:	WCAG 2.2 AA, Section 508, axe-core in CI, Lighthouse CI, NVDA, JAWS
Build, CI & Monorepo:	Nx, Module Federation, esbuild, GitHub Actions, Docker, Git

EDUCATION

Drexel University — **B.S. in Software Engineering** — Philadelphia, PA · Sep 2008 to Jun 2013

WORK EXPERIENCE

Jefferson Health — **Lead Front-End Engineer** — Philadelphia, PA · Jan 2018 to Present

- Planned and led the **AngularJS to Angular** migration of **7** clinical apps over 26 months, running old and new side by side with ngUpgrade and moving one route at a time, with no planned downtime for staff.
- Set up the clinical design system of **110** components on the **Angular CDK** with **Storybook** docs and **axe** checks in CI, used by 6 teams and cleared by 2 outside accessibility audits.
- Designed the **Nx** monorepo and **Module Federation** shell for the patient portal, with tagged library boundaries and one shared auth library, cutting median CI time from 24 to **7 minutes**.
- Set the state rules for every app (signals in components, **NgRx SignalStore** for features, **NgRx** Store for patient context), which cut state-related production incidents from 9 a quarter to **2**.
- Moved **2,300** unit tests from Karma to **Jest** and made **Playwright** and axe checks required on every pull request, cutting the full test run from 18 minutes to **6**.

SAP Concur — **Senior Software Engineer** — Bellevue, WA · Jul 2013 to Dec 2017

- Built the expense report and approval forms in **AngularJS** with custom validators and a shared **$http interceptor** for retries and session refresh, cutting failed submissions on slow connections by **43%**.
- Cut load time on the expense report screen from 4.8 s to **1.7 s** by paging line items, lazy-loading receipt images and dropping digest-cycle watchers from 3,800 to 900.
- Led **5** developers on the team's first **Angular 4** feature, the receipt inbox, built on **RxJS** streams with switchMap for search and retry on uploads, cutting duplicate uploads by **88%**.