

## Brett Sanders

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### SOFTWARE ENGINEERING DIRECTOR

#### Full Stack Software Engineer | SAFe Agile Certified | AWS Certified

Award winning technology leader with proven experience driving software engineering excellence, primarily in the financial sector. Expertise in full-stack development, cloud technologies, and modern architectural practices. Proven ability to lead cross-functional teams, delivering high-impact projects on time and under budget. Passionate about building maintainable systems, fostering team growth, and aligning technology with business goals.

### TECHNICAL SKILLS

- **Database:** SQL Server | SQL | SSMS | SSRS | ETL | Entity Framework | ADO.NET. Familiarity with AWS RDS | DynamoDB.
- **OS:** Windows | Mac | some Linux.
- **Server Side:** Node | Express | C# .NET (Framework/Core) | ASP.NET | MVC | Microservices | SOA | IIS | RESTful APIs | PowerShell | Gulp.
- **Client Side:** Angular | Angular Forms Reactive/Template-Driven | React | SPA | JavaScript | TypeScript | CSS/SASS Grid/Flexbox | CSS Variables | HTML | Foundation/Bootstrap CSS | Media Queries | Responsiveness | Razor syntax.
- **Tools:** Visual Studio | VS Code | TeamCity CI | Octopus CD | Postman | Artifactory | Proget | TFS/Git | GitHub | Azure DevOps | npm | nuget | TS Lint | Miro | Figma | Invision | AirTable | Slack | Teams | Discord | Confluence | Discourse.
- **Cloud:** AWS Console | IAM | S3 | EC2 | EBS | Lambda | Azure VM | App Services | Storage | Virtual Network | SSL.
- **AI:** Cursor IDE | Windsurf IDE | OpenAI ChatGPT .NET Library | Microsoft Copilot | Google Gemini | Anthropic Claud | Midjourney | Prompt engineering.

### EXPERIENCE

#### Truist Bank

June 2016 - Present

#### Software Engineering Director, October 2022 – Present

Areas of ownership: public website, analytics, accessibility, customer portal, authentication, loan applications, teammate sites, partner API integrations, customer correspondence, in-house built lending platform, and web content management system (CMS)

- Managed 4 delivery teams (20 direct reports) supporting web, iOS, Android for 24/7 operation.
- Saved the bank ~\$2 million finding a secure solution for usage of deprecated web framework.
- Successfully launched divisional rebrand: rebranding web, email, documents, image assets for the LightStream division to the Truist brand providing cohesive customer experience. 250+ pages, 50+ email templates and documents.
- Responsible for roadmaps, architectural diagrams, budget justification, intake presentations, and hiring.
- Truist Cyber Security Champion member.
- Co-led an IT team restructuring, enhancing planning, clear ownership, and task allocation, resulting in improved code quality and accelerated project delivery.
- Successfully solutioned, developed and launched State Farm partnership loan application, driving significant business with over \$74.3 million in funded loans since launch in early 2023. (Angular SPA, C# .NET MVC, Partner .NET Core Microservice, SQL Server, all apps/services hosted in AWS).
- Achieved 100% ADA compliance for the public website, significantly enhancing accessibility and reducing legal risks. Testing is done with NVDA, Jaws, Mac VoiceOver, Deque Axe DevTools and Axe Monitor scans.
- Onboarded code analysis scanning tools (Veracode, Burp, Qualys, npm audit), processes (CI/CD integration via TeamCity, SCA, SAST, DAST), and remediation plan with ongoing maintenance to ensure code has no known vulnerabilities.

- 99.9% uptime for customer facing web experiences.
- Launched the first fully digital solution at the bank for allowing fiduciaries to submit applications on behalf of the beneficiary to align with ADA, Fair Lending/Banking, UDAAP.

**Solutions Architect, November 2020 - October 2022**

Solutioned and developed a complex joint application feature enhancing the system from a single credential per application system to a dual credential system to meet regulatory and compliance standards allowing co-applicants to consent and view application details. (C# MVC, Angular, SQL Server, ETL, OAuth 2 Authentication Microservice)

- Migrated all web analytics from Ensign to Adobe Experience Cloud. All page tracking events, user interactions, and field tracking had to be refactored and sent to the Truist instance of AEM. (C# MVC, TypeScript)
- Created L0/L1 architectural diagrams, design documents and cyber security blueprints for all owned applications and services extensively cataloguing dependencies, up/down stream impacts, protocols, and security configuration. (Miro, System Architect, PowerPoint, SharePoint)
- Architect and technical lead on the web deposit application and restructuring the site as multiproduct site (from Loans only to Loans + Deposits). Over 3,000 deposit customers for the first year pilot program.

**Application Development Manager, September 2019 - November 2020**

Architected a new application feature that allows customers to save their application and resume it later, leading to 9% higher conversion/completion rate of submitted applications. (SQL Server, C# MVC, TypeScript, Angular, ETL, Microservice)

- Moved source code from Azure DevOps TFVC to Azure DevOps Git. Implemented gitflow branching strategy streamlining releases and developer workflow.
- In urgent response to a bot cyber-attack, added Google reCAPTCHA to loan applications thwarting the automated attack.
- In response to covid, myself and team quickly added covid response banner to the website and implemented a payment relief program. (Adobe Target, Angular, CMS, C#).

**Sr Software Engineer - Team Lead, June 2016 - September 2019**

Rebranded & rebuilt the entire website (250 pages) to run on Kentico CMS (C# ASP .NET) including WYSIWYG page builder, reusable content, highly configurable components. This allowed marketing to make web changes and build pages same day as opposed to waiting a month minimum for engineering delivery.

- Introduced accessibility WCAG AA to the website and got training for the development team reducing risk of lawsuits.
- Led the development of 40+ Angular components for a new CMS component library. Components were packaged as an npm package and hosted on a Proget internal artifact repository. The components could also be used as web components on any internal site regardless of front-end frameworks. (Angular Modules, Components, Services, Directives, Decorators, Template Driven and Reactive forms, RxJs)
- Implemented SCSS token and variable based global style guide, resulting in an 80% reduction in CSS file size, enhanced site performance, speed of development, and consistency sitewide. SCSS tokens programmatically linked to Invision design system.

**US Bank SBA (Small Business Administration)****November 2011 - June 2016****Senior Software Engineer**

Led the development of a new lending platform to replace the homegrown platform running on obsolete technology. We leveraged C# ASP.NET MVC .NET backend, AngularJS frontend, routes & deep linking, new

permission/roles system and authorization. This saved over \$100k in eliminating extended support costs for Windows XP.

- Migrated homegrown database to SQL Server via ODBC driver using a Windows Service allowing near real time reports for executive leadership
- Automated all manual reports, including data refreshes, formatting, pdf creation, and email distribution on a schedule. (C#, VBA, Office Interop Libraries).

### **ADDITIONAL RELEVANT EXPERIENCE**

#### **US Bank**

##### **Programmer Analyst – Process Improvement Specialist - Manufactured Housing Finance**

Implemented automation and process enhancements by finding API interactivity between mainframe system and division applications saving the company over \$400k annually. COM Interop, XTRA Extreme, C# .NET Framework.

- Contributions led to a record \$30 million funding month, surpassing annual targets by 20%
- Streamlined all processes in loan processing, reducing average processing time by over a day, improving efficiency and customer satisfaction.

#### **US BANK AWARDS**

- Outstanding Performance - Process Management
- Above And Beyond Award
- Exceptional Service Awards

### **CERTIFICATIONS & TRAINING**

- |                                    |      |
|------------------------------------|------|
| • AWS Certified Cloud Practitioner | 2023 |
| • AWS Technical Essentials         | 2023 |
| • Developing on AWS                | 2023 |
| • Advanced Developing on AWS       | 2023 |
| • Architecting on AWS              | 2023 |
| • Developing Serverless on AWS     | 2023 |
| • Accessibility for Web Design     | 2021 |
| • Certified SAFe 5 Practitioner    | 2021 |