

Craig Cecil

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I design and build insanely great software that you can see, hear, feel and touch

Summary of Qualifications

- Professional software developer with over 30 years of experience in several software development life-cycles for commercial, enterprise and government software
- Expert in front-end web engineering, resulting in significant cost savings, improved user experiences and longer sustainability
- Expert knowledge and experience with design systems, usability, accessibility and user-centered design at scale
- Author of several organizational-wide design systems, frameworks, and code libraries
- Industry leader and noted author for designing directly in the browser

Employment

Leidos (2023—present): Senior Technical Advisor

- Collaborated with over 10 federal government agencies on design systems (Census, DHS, FEMA, GSA, IRS, NIH, OMB, SSA, USDA, USPTO, VA, USDS)
- Collaborated in the continuous delivery of the User Experience Framework (UEF) Web Component-based design system for the Social Security Administration (SSA)
- Taught design systems training to over 100 designers
- Taught Web Component training to hundreds of developers
- Provided design reviews of dozens of application prototypes
- Provided hundreds continuous design and development reviews via Git and Jira
- Created several design system themes using design tokens, CSS, and JSON
- Built a web-based interactive learning platform
- Created the online training course, 'Using UEF Web Components with HTML', including interactive quizzes, and a certification test
- Designed and built a Software Migration Estimator for over 100 projects to use

Peraton (2021-2022): Senior Technical Advisor

- Created the open-source [Genesys](#) prototyping kit
- Created open-source Visual Studio Code extensions in support of Genesys
- Spearheaded the formation of the first dedicated Design Systems branch at SSA
- Led the implementation and integration of a style dictionary, design tokens, theming, and [United States Web Design System](#) (USWDS) compatibility into the UEF design system
- Led the adoption of [Storybook](#) for the UEF Design System
- Designed and created the SSA Design System website (Principles, Guidelines, Tokens)
- Designed and developed an Unmoderated Testing Platform, allowing UX

professionals to test designs remotely, in an unmoderated setting. Leads participants through tests, asks questions, and gathers feedback automatically

Northrop Grumman (2014-2021): Senior Web Developer

- Designed and prototyped the responsive web-based UEF for SSA
- Managed the accessibility testing of UEF
- Designed and developed a pattern library (100+ patterns), style guide and a standards website for SSA
- Created the 'Design in the Browser Playbook'

Lockheed Martin (1996-2014): Senior Internet Developer

- Internet standards evangelist and subject matter expert for Lockheed Martin and SSA mobile and front-end web engineering (HTML, CSS, JavaScript, Usability, Accessibility, Performance Optimization, Build Process)
- Lead designer and developer of the FlexWeb User Experience Framework for the SSA. Provides an extensible, component-based front-end framework for rapidly constructing and deploying web and mobile applications for the federal government. The framework receives over one million page views per day
- Designed and developed reusable software components for SSA web applications, including SSA SmartForms
- Designed and developed web standards-based page component and presentation layer architectures which reduced bandwidth costs over 30% for the SSA, saving the agency millions of dollars per year
- Designed and developed over 20,000 lines of component-based JavaScript code for use by all SSA Internet applications
- Developed over 25,000 lines of Java Server Pages (JSP) and Java code for five SSA Internet applications, serving the public
- Technical Lead of presentation-tier development of the Internet Social Security Benefits Application. This application received the second highest customer satisfaction score ever recorded among all government web sites from the American Customer Satisfaction Index
- Developed training courseware and conducted training seminars on best practices for developing with web standards and providing Section 508 compliant web applications
- Work order manager for Internet, groupware and Microsoft-based office automation solutions for the SSA
- Conducted web site analyses/audits for the Health Care Financing Administration and the SSA
- Designed, developed, and deployed Microsoft Exchange-based groupware applications, intranet sites/applications, and electronic forms solutions for the SSA.
- Designed, developed, and deployed Lotus Notes 4.x project-management tracking system for the SSA

Verizon (1992-1996): Client/Server Solutions Provider

- Designed, developed, and deployed collaborative computing environment throughout large department (200+ nodes) using the Lotus Notes architecture. Responsible for installation and administration of Notes servers
- Designed, developed, and deployed a corporate-wide intranet web server and content for Notes/HTML publishing
- Collaboratively designed and developed a suite of Notes applications to deliver investor and corporate information to executive desktops throughout the enterprise
- WAN System Administrator for enterprise-wide client/server application. Responsible for administration/deployment of ~350 user workstations across seven organizational units in six states
- Collaboratively designed and developed a proprietary client/server decision-

support system for corporate financial analysis. Responsible for designing and developing end-user interfaces and communications interfaces between workstations, servers, and mainframes

Skills

Web Technologies

- HTML, XML, Web Components
- CSS, Less, Sass
- JavaScript, TypeScript, JSON, Node.js, jQuery, jQuery Mobile
- Section 508, Web Content Accessibility Guidelines (WCAG)
- Git, GitHub, BitBucket
- Android & iOS App Development
- PHP, Active Server Pages (ASP), Java Server Pages (JSP)

Design Systems

- UEF — User Experience Framework
- USWDS — United States Web Design System
- GOV.UK Design System
- Google's Material Design
- Microsoft's Fluent
- Bootstrap
- W3C Design System
- plus familiarity with hundreds of others

Software Engineering

- AI prompt engineering
- Agile, Scrum, Kanban, Waterfall, plus about two dozen others
- CMM, UML
- Software metrics, analysis and complexity evaluation
- Responsive Web Design (RWD), Adaptive Web Design, User-Centered Design (UCD)
- Accessibility, Section 508, WCAG
- Information Architecture
- Functional Programming (FP), Object-Oriented Programming (OOP), Literate Programming

Programming Languages

- JavaScript, TypeScript, HTML, XML, CSS, Sass, Less, Java, JSP, ASP, C, Visual Basic, VBA, VBScript, SQL, Pascal, COBOL, Fortran, Assembler, Prolog

Operating Systems

- Windows, MacOS, Linux, Android, iOS

Databases

- MySQL, Microsoft Access

Education

Loyola University Maryland (1990-92)

- Masters degree (MBA) in Business Administration/Information Systems

Johns Hopkins University (1989-90)

- Completed several graduate courses in Economics

McDaniel College (1985-89)

- Bachelor of Arts (BA) degree in Computer Science, Economics, Business Administration

Academic Societies

- [Phi Beta Kappa](#)
- Omicron Delta Epsilon (International Honor Society in Economics)
- Pi Gamma Mu (International Honor Society in Social Sciences)

Professional Societies

- Association for Computing Machinery (ACM)
- IEEE Computer Society

Publications

[Designing in the Browser: A Step-By-Step Guide to Web-Based Prototyping](#), 2021.

Professional Awards

- Northrop Grumman Innovation Award (2017, 2018, 2019)
- Social Security Administration Associate Commissioner's Honor Award (2011)
- Lockheed Martin Mission Success Award (2011)
- Social Security Administration Commissioner's Award (2009)
- Lockheed Martin CMMI Level 3 Star Performer Award (2005)
- Lockheed Martin Performance Excellence Award (1998)
- Lockheed Martin Lightning Award (1997, 1998, 1999)