

I am a seasoned technologist and Fellow engineer based in Philadelphia, PA. Currently, I'm honored to serve as Co-Chair of the Media and Entertainment Group at W3C, while also leading development of the SolidJS integration with Lightning for GCS.. Throughout my career, I have demonstrated a strong ability to lead high-impact projects, drive innovation, and foster cross-functional collaboration. My focus lies in creating scalable solutions, promoting technology adoption, and delivering exceptional user experiences. With two technology patents to my name, I've had the privilege of contributing to advancements in the field. With a passion for sharing knowledge, I am a skilled communicator and presenter at at least five industry conferences and events each year.

Technologies and Languages

- Languages: Javascript, Typescript, Ruby
- Technologies: React, SolidJS, Vue, Flux (Redux), Vite & Webpack, Web Components, Ionic, Jest, Storybook
- Specialties: Web Performance, low-powered devices

Work Experience

Fellow Engineer Consultant	GCS Philadelphia, PA	Jun 2024–Present
• Worked with South African company Multichoice to develop there next generation set top box using SolidJS and Lightning integration • Developed a VueJS integration with Lightning for Sky Media		
Distinguished Engineer Lightning Team	Comcast Philadelphia, PA	Sep 2018–Jun 2024
• Pioneered the development of the Solid JS and Vue JS integration for Lightning 3, showcasing proficiency in modern web development frameworks within just one month • Collaborated closely with internal partners to establish a robust open-source component library, optimized for performance to support 100+ applications written in Lightning • Championed Lightning 3 adoption within Comcast and the wider community through strategic meetings and speaking engagements, notably featuring as a guest speaker on Ryan Carniato's esteemed YouTube channel, the creator of SolidJS • Produced engaging YouTube content to facilitate Lightning 3 adoption and learning, enhancing accessibility and understanding for diverse audiences • Contributed expertise to cross-functional development teams of end-user TV applications such as Xumo Play and Sky, ensuring alignment with project objectives and user needs • Delivered compelling presentations on topics such as Progressive Web Apps, Solid JS as a universal renderer, and Web Performance Optimization at premier tech conferences nationwide, fostering knowledge exchange and innovation as an invited speaker • Developed comprehensive training programs tailored to seamlessly onboard developers to the Lightning platform • Engineered and crafted Voice Guidance and accessibility components for Lightning Applications, ensuring inclusivity and usability for all users		
Sr. Principal Engineer Smart Internet and Polaris teams	Comcast Philadelphia, PA	2015–2018
• Lead the development of the Smart Internet Project, driving innovation and strategic development initiatives • Led recruitment efforts, hiring and mentoring a team of over 10 skilled engineers for the newly formed Smart Internet team, while spearheading the design of a streamlined hiring process for engineers at Comcast Interactive Media		

- Pioneered the implementation of Implicit OAuth, Streamlining authentication processes and enhancing system security
- Collaborated with an API gateway team to integrate CORS headers, enabling seamless access to multiple APIs and delivering unified front-end experiences for customers
- Optimized development and eliminated server costs by removing Rails middleware for the Smart Internet project
- Engineered a simplified deployment setup, slashing deployment time from one hour to just 30 seconds, improving overall performance
- Collaborated with multiple internal teams to eliminate the Ruby middleware proxy servers that saved millions of dollars in server costs and set a new pattern for how Comcast created web applications in the future
- Redesigned the universal Polaris navigation to a static format, reducing hosting costs by 90% and demonstrating a commitment to cost-effective solutions
- Established Comcast Day, a career guidance program catering to 100 high school students at the Comcast Center for NFCS, fostering community engagement and mentorship

Principal Engineer	Comcast Philadelphia, PA	2011–2015
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Lead Frontend Engineer	Comcast Philadelphia, PA	2007-2011
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Education and Certifications

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| ● M.S. Business Administration , Saint Joseph's University, Philadelphia, PA. | 2004–2008 |
| ● B.S. Computer Science & Math , Ursinus College, Collegeville, PA. | 2000–2004 |

Patents & Awards

- Display Screen Or Portion Thereof With Animated Graphical User Interface
 - Patent Number: D992573
 - Issued Date: July 20, 2023
- Systems and methods for on-network device identification
 - Patent Number: US 20200036716 A1
 - Issued Date: February 15, 2022
- Comcast Circle of Success Award Winner - 2021 Xfi Group