Alec Custer

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PROFESSIONAL EXPERIENCE

Staff Software Engineer *February 2024—Present*
Xperi Corporation *San Diego, CA*

- Serve as lead engineer on the Personalized Content Discovery Engagement Console, an Angular application enabling customers to configure and deploy personalized search endpoints; own feature development, bug fixes, tech debt management, and cross-functional stakeholder communication.
- Spearheaded a major framework migration from Angular 13 to Angular 19, implemented UX overhauls including bulk editing with drag-and-drop and syntax-aware highlighting via Monaco Editor, and delivered technical presentations to the engineering team on modern Angular patterns.
- Rapidly developed the frontend for an LLM-driven proof-of-concept showcased at IBC 2025, leveraging cutting-edge browser APIs (WebSpeech, WebHID, WebGPU) to deliver a dynamic conversational interface for content discovery.
- Served as chair of Xperi's Pride Employee Resource Group (ERG), fostering an inclusive workplace culture.

Software Engineer II *January 2022—December 2023*
Condé Nast *San Diego, CA*

- Maintained a React-based internal marketing platform responsible for facilitating the user purchase and subscription flow across all Condé Nast digital publications.
- Worked closely with designers to develop new paywall features and visual units, as well as with marketers to utilize and deploy these units in targeted marketing campaigns.
- Contributed to an organization-wide infrastructure migration from an in-house deployment service to a new stack leveraging AWS, Kubernetes, Terraform, and other Infrastructure as Code (IaC) tools.

Senior Software Engineer *September 2020—January 2022*
Xperi Corporation (merged with TiVo in June 2020) *Durham, NC*

- Led new initiatives to improve the maintainability and performance of the Personalized Content Discovery Engagement Console, including: an overhaul of the app's build process, leading to an overall bundle size reduction of over 50%; a significant expansion of unit and integration test suites; and the introduction of route-based lazy module loading, decreasing the initial JS payload by another 50%.
- Oversaw and contributed to new project upgrades and integrations, from executing Angular major version updates to integrating with modern developer tooling, including ESLint, Prettier, and the Cypress end-to-end testing framework.
- Served as an appointed member of Xperi's Diversity and Inclusion Council, which works to promote equity and inclusivity within the company, and additionally led a newly-formed Education & Mentorship D&I subcommittee.

Software Engineer *June 2017—September 2020*
TiVo *Durham, NC*

- Improved and supported TiVo's PCD Engagement Console by implementing new user-facing features, upgrading project dependencies, and collaborating with Quality Assurance to monitor and enhance the user experience.

Full Stack Developer *September 2016—May 2017*
Davidson College *Davidson, NC*

- Built data insight dashboards using Angular and Kendo UI for the college's IT department, and assisted students and staff with web development projects including custom JavaScript widgets and personal domain deployments.

EDUCATION

Davidson College *May 2017*
B.A. with Honors in Digital Studies, *cum laude* *Davidson, NC*
Minor in Computer Science

TECHNICAL COMPETENCIES

Core Languages: JavaScript (TypeScript), Java, Python, HTML, CSS, SCSS | **Frameworks:** Angular, NgRx, NodeJS, React, RxJS
Design & Styling: Figma, Styled Components, Tailwind | **Testing:** Cypress, Jest, Mocha | **Tooling:** ESLint, Git, NPM, Nx, Prettier, rspack
Infrastructure: Ansible, AWS, Jenkins, Maven, Netlify, Render, Terraform | **Workflow:** Confluence, Google Analytics, Jira