Alec Custer

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PROFESSIONAL EXPERIENCE

Senior Software Engineer *September 2020—Present*
Xperi Corporation (merged with TiVo in June 2020) *Durham, NC*
- Lead 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%.
- Oversee and contribute to new project upgrades and integrations, from executing Angular major version updates to integrating with modern web development tools, including ESLint, Prettier, and the Cypress end-to-end testing framework.
- Serve as an appointed member of Xperi's Diversity and Inclusion Council, which works to promote equity and inclusivity within the company, and additionally lead a newly-formed Education & Mentorship D&I subcommittee.

Software Engineer *August 2018—September 2020*
TiVo *Durham, NC*
- Improve and support TiVo's PCD Engagement Console by implementing new user-facing features, upgrading and maintaining project dependencies, reporting and fixing bugs, and monitoring the user experience alongside TiVo's Quality Assurance (QA) team.
- Participate in daily stand-ups and bi-weekly iteration-planning meetings to evaluate development tasks and determine team sprint goals.

Associate Software Engineer *June 2017—August 2018*
TiVo *Durham, NC*
- Maintained and enhanced various TiVo software products, including video players and viewership analytics libraries for iOS, Android, HTML5, Apple TV, Universal Windows Platform (UWP), and Roku.
- Communicated with business customers to help triage and resolve support tickets (Zendesk), respond to user requests, and deploy new product releases.

Full Stack Developer *September 2016—May 2017*
Davidson College *Davidson, NC*
- Built dashboards using Angular 2 and Kendo UI components that supply data insights for questions posed by the college's IT department, including which student demographics use a school-provided laptop rental service, and which "davidson.edu" emails appear in the "Have I Been Pwned" registry of compromised addresses.
- Assisted students and staff with various web development projects, from teaching students how to deploy digital assignments to their personal domains, to writing a custom JavaScript widget for the college's poster-printing student portal.

Front-End Development Intern *June 2016—August 2016*
Tresata *Charlotte, NC*
- Wrote a plugin for the company's data visualization software that provides the ability to create flight-path visualizations from ElasticSearch queries on geospatial datasets. The plugin added depth to Tresata's software suite and was quickly introduced to client demonstrations.

Web Developer *May 2015—December 2015*
Nelson Mazda Auto Group *Nashville, TN*
- Worked with a small team of developers during the summer and remotely through the fall 2015 semester to completely re-write each of the company's three dealership websites. Deployed a finished product at https://www.nelsonmazda.com/coolsprings/ by end of 2015.

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 | **Project Configuration & Deployment:** Ansible, Jenkins, Maven, Netlify, Nexus
Web: HTML, CSS, SCSS | **Automated Testing**: Cypress, Mocha, Robot Framework, Selenium | **Agile:** Confluence, Jira, Testrail
Frameworks & More: Angular 2+, ESLint, Gatsby, Git, Google Analytics, NodeJS, NPM, Prettier, React, RxJS, Stylelint, Tailwind, Webpack