

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 project maintainability and performance, including an overhaul of the project's build process, a significant expansion of unit and integration test suites, and a successful effort to reduce the total project build size by over 50%.
- Oversaw and contributed to a variety of improvements to the PCD Engagement Console, from executing multiple Angular major version upgrades, to leading integrations with new tools, including ESLint, Prettier, and the Cypress end-to-end testing framework.

Software Engineer

August 2018—September 2020

TiVo

Durham, NC

- Improve and support TiVo's Personalized Content Discovery Engagement Console web application 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/coolspings/> by end of 2015.
- Monitored and analyzed site usage patterns using Google Analytics, and used resulting data to test and implement new UI/UX features inspired by Google's "material design" UI patterns.

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, GatsbyJS, Git, Google Analytics, NodeJS, NPM, Prettier, RxJS, TSLint, Stylelint, Webpack