**Andrew Barbour***Software Engineer*barbouraj@gmail.com andrewbarbour.com   
828-406-3565 github.com/andrewjbarbour

*Software engineer with experience ranging from developing and maintaining front-end apps to architecting and maintaining CI/CD pipelines* **Skills**

JavaScript, TypeScript, React, Redux, HTML, CSS, Node, Java, Python, SQL, Bash/Shell, data visualization, cloud infrastructure, responsive design, accessibility, test-driven development

**Experience**

***Software Development Engineer*, Altair, Altair One Team, November 2022 - Present**  
• Built the front-end for a digital twin cloud app with React and TypeScript from concept to MVP in a month   
• Developed and maintained the plot viewer application with React and TypeScript for viewing, editing, and sharing plot files within the Altair One Drive  
• Contributed to the development of the 3D Viewer used within the Altair One Drive   
• Maintained the drag and drop library used in multiple applications across Altair One

***Software Development Engineer*, Altair, Information Development Team, August 2021 - November 2022**• Developed core Javascript application front-end features, including offline access tools, dark mode, and search components  
• Created Python apps and workflow tools to automate internal processes and make code-intensive workflows accessible to low-code team members  
• Architected and maintained the team’s CI/CD pipeline and GitLab infrastructure for several dozen products  
• Planned and oversaw the team’s migration from Perforce to GitLab

***Intern*, Altair Engineering, May 2021 - August 2021**

• Developed JavaScript and Python application features for workflow help tools and simulation software

• Created Python prototypes of new application features like in-application tutorials

• Built apps to automate data collection and conversion

***PhD Candidate*, UC Berkeley, 2014 – May 2021**  
• Researched and wrote a dissertation on engineering and literature that won numerous grants, awards, and prizes• Designed and taught 7 literature, science, and engineering courses as the sole instructor

**Education and Training  
  
Epic React, 2022**Completed all units of an industry-leading seminar on best practices for developing React applications at scale

**Ph.D., English | University of California, Berkeley**2021  
*Engineering and literature*

**B.A., English with highest honors | UNC-Chapel Hill**2013  
*with coursework in Computer Science*