**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, DevOps, cloud infrastructure, responsive design, accessibility, test-driven development

**Experience**

***Software Development Engineer*, Altair, August 2021 - Present**• 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

***Software Engineer*, Freelance, 2021 – August 2021**• Built a wide range of dynamic and responsive web apps such as e-commerce and video streaming React applications

***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

### *Webmaster*, Qui Parle, 2016-2017.

• Managed the journal’s website with HTML, CSS, and JavaScript

**Education**

**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*