On May 11, 1854 at Alafia, Jesse Alderman married Adeline Prine. F. C. M. Boggess officiated at the wedding. Adeline was born in Georgia January 1832 according to the 1900 DeSoto County census. Earlier census indicated that she was born about 1836. Jesse and Adeline Alderman had ten children:

- 1. Martha Alderman, born May 6, 1855; died April 23, 1897, buried at Joshua Creek Cemetery; married James W. Bailey on October 21, 1874.
- 2. Daniel H. Alderman, born October 18, 1857; died December 1, 1890; married Martha E. Bates, daughter of John M. and Elizabeth Bates, on March 25, 1880.
- 3. Francis M. Alderman, born March 28, 1859; married Annie L. Hampton on June 1, 1886.
- 4. Thomas J. Alderman, born January 18, 1861; married Alice V. Lowe on May 9, 1889 in DeSoto County, Florida.
- 5. John Morgan Alderman, born November 13, 1862; died January 26, 1940, buried at Friendship Cemetery; married Easter Sauls in 1892.
- 6. Emily Marie Alderman, born June 7, 1864; died August 28, 1957; married William Henry Williams, son of Thomas Dowdy and Matilda Caroline (Herndon) Williams, on December 21, 1884; buried at Oak Ridge Cemetery, Arcadia, Florida.
- 7. William P. Alderman, born October 9, 1867.
- 8. James G. Alderman, born January 18, 1870; died May 13, 1899, buried at Joshua Creek Cemetery.
- 9. Abigil "Abbie" Alderman, born November 8, 1871; married in 1891 Virgie H. Freeman.
- 10. Miriam Alderman, born June 20, 1873.

During the Third Seminole Indian War, Jesse Alderman served as a private in Capt. William B. Hooker's company, E. J. Kendrick's company and Capt. Leroy G. Lesley's company. He enlisted in Capt. Lesley's company in the regiment of Florida Volunteers commanded by Col. Harney at Fort Brook on August 21, 1856. At the time of enlistment he was described as age, 30; height, 5'll"; blue eyes; sandy hair; and fair complexion. He served most of his service at Fort Green. He stated in an 1893 pension application that on January 7, 1857 he "contracted measles and from exposure while suffering therefrom contracted lung disease from which he has never recovered." Jesse was honorably discharged on February 19, 1857 at Fort Brook.

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After his military service, Jesse Alderman moved his family from Alafia to the Fort Green area in Manatee County (present day Hardee County). Jesse was listed as a juror who was called to appear in Circuit Court at Manatee, Manatee County on April 18, 1859. He was enumerated in the Fort Green area in the 1860 Manatee County census along with Stephen Hooker, Nelson Locklear, John Parker and Daniel