Albert Rehmann was born 22 June 1893 in St. Paul, Ramsey County, Minnesota to Christian Rehmann (1857-1923) and Margarethe Schmidt (1863 - ), both born in Germany. The family lived at 1037 Stryker Avenue in West St. Paul, where Albert attended Sibley School. He worked as a farmer and as a car repairer at Great Western Railroad before the War. He was unmarried.

Rehmann was inducted on 28 May 1918 at Hastings and served in Company I, 308th Infantry, 77th Division. During the Meuse-Argonne offensive, he saw intense fighting and was killed in action on 13 October 1918. His military service number was 3129755. At least two others from Dakota County served in the same company with Rehmann and died in the War: Herman Otto and John W. Richardson.

Rehmann was buried at Meuse-Argonne American Cemetery.