

## Who We Are

Saga Education is a national nonprofit that has served over 17,600 students with high-dose math tutoring during their regular school day. Fueling this work is a bold vision to combat educational inequity by working with school districts to unlock the power of personal relationships to nurture academic, social and emotional growth for young people. Our students and schools represent historically marginalized communities. Our mission is to provide them rigorous, high impact tutorials that ensure they have the confidence and academic strength to achieve success in high school and beyond. For more information about Saga Education's mission, please visit us at [www.sagaeducation.org](http://www.sagaeducation.org).

## The Work and Why it Matters

Our software engineering team supports this bold vision by building best-in-class products. Today this includes, [Saga Connect](#), [Saga Coach](#), and [Woot Math](#). Saga Connect is an online learning platform for live tutor-student interactions. It enables our tutors (Saga Fellows and AmeriCorps members) to deliver high quality online math instruction. It was ranked as the best online platform for live instruction by the College Board, and today, we are proud to support the use of it by other organizations.

## The Project

The Saga Cohort will be tasked with developing an audio/video conferencing solution based on the open source video conferencing SDK [Jitsi](#). Saga currently uses the conferring solution from Twilio which is expensive and detracts from our mission to make high-impact tutoring affordable for all. The project will involve full stack software engineering against a cutting edge SDK. The client work will be node in ES6+ compatible Typescript & Haxe and will include UI/UX support from Saga's design team. The server side will be deployed in the AWS cloud and require the team to learn enough about cloud provisioning and deployments to effect a self-hosted solution. The team will report directly to the VP of engineering and will be supported by the Saga engineering team as necessary.

## What You Will Learn

Programming for the mobile web in modern ES6+ compatible environments.

Modern techniques for managing deployment and scaling in the AWS cloud

Containerization technologies (Docker and DockerHub)

WebRTC

Typed REST or GraphQL over HTTPS

## Bottom Line

We invest a lot in our cohorts and have led numerous successful projects with past teams from CU Mines. We expect a lot from our team so if you are ready to work and want to learn (drink from the firehose) we are your shop.