2023-2024

Asian American Dream (In-Progress expected to be completed by the end of 2024)

Asian American Dream empowers underserved Asian American and Pacific Islander undergraduates through career-centric mentorship and professional development opportunities.

Project Description

AAD hosts an annual event where mentees can meet their potential mentors. At the end of the event, the mentees and mentors rank their preferences. AAD processes the mentor rankings manually, which takes over 48 hours of manual matching each year. The project aims to design a matching algorithm for AAD's KIN mentorship program and a directory that allows mentors and mentees to view each other's profiles.

Tools

Next.js, tRPC, Docker, Prisma, Typescript, Python

NYC-Mesh (Completed)

NYC Mesh is an organization dedicated to bridging the digital divide in New York City by providing high-speed, reliable internet access. They host and build a neutral internet network that allows residents to connect without monitoring, data collection, or content blocking, preserving user privacy and autonomy.

Project Description

NYC Mesh manages and installs antennas to provide free internet service across the different boroughs in New York City. Each antenna produces an area of service availability called the sector lobe. The sector lobe points in the same direction as the antenna is directed; however, if the sector lobes of two different antennas overlap, they can cause interference, thereby reducing the service availability in the area. To manage this, we created a web application that lets NYC Mesh members modify the direction and frequencies of the antennas to verify that new installations do not break

the service availability in certain areas.

Tools

Next.js, PostgreSQL

In-Reach (In-Progress expected to be completed by the end of 2024)

InReach has verified services for LGBTQ+ asylum seekers, refugees and other immigrants, LGBTQ+ Black, Indigenous, and People of Color (BIPOC) communities, the transgender and gender nonconforming (TGNC) community, LGBTQ+ youth and their caregivers, and more LGBTQ+ communities.

Project Description

Revamp and modernize the current InReach website to visually align with the free mobile InReach app. Their current website is hosted using WordPress, which is causing latency, so the new project will have to provide an integrated management system (CMS) that allows non-technical InReach members to modify and update the website with reusable components.

Tools

TinaCMS, Vercel, React

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