

AWS Service Recommendations for Your Stack

Backend (Spring Boot / Node.js)

- EC2 Free Tier -> 750 hrs/month (t2.micro)
- Elastic Beanstalk Free Tier -> auto deploy & manage apps
- Lightsail -> ~\$5/month (simple VPS)

Frontend (Next.js)

- S3 + CloudFront Free Tier -> static site + CDN
- Amplify Hosting Free Tier -> CI/CD + deploy Next.js

Database (PostgreSQL)

- RDS Free Tier -> 750 hrs/month (db.t2.micro) + 20 GB storage

Email Service

- Amazon SES -> 62,000 emails/month from EC2
- ~\$0.10 per 1,000 emails outside EC2

User Photos (Object Storage)

- S3 Free Tier -> 5 GB storage, 20k GET, 2k PUT requests/month

User Authentication

- Amazon Cognito -> 50,000 monthly active users free tier

Summary (Free / Low-Cost Plan)

Backend -> EC2 / Elastic Beanstalk -> 750 hrs/mo (12 mo)

Frontend -> Amplify / S3 + CF -> 5 GB, 1k builds, 50 GB CDN

Database -> RDS -> 750 hrs/mo, 20 GB (12 mo)

Email -> SES -> 62k emails/mo (EC2)

Storage -> S3 -> 5 GB

Auth -> Cognito -> 50k monthly active users