Submission Guide — Gopi Capstone (AWS Terraform, ca-central-1)

This updated guide reflects fixes to ensure Terraform applies without errors.

# Steps

1. Upload and unzip `gopi-capstone\_final.zip` into AWS CloudShell.

2. Run `./bootstrap.sh` to set up S3, DynamoDB, and IAM OIDC role.

3. Deploy environments:

a. `terraform -chdir=envs/dev init && terraform -chdir=envs/dev apply -auto-approve`

b. Repeat for staging and prod if desired.

4. Confirm outputs:

- ALB DNS shows 'Welcome to Gopi Capstone - ENV' page.

- RDS endpoint and Secrets Manager ARN appear in outputs.

5. Push to GitHub, add secret `AWS\_ROLE\_ARN` with the IAM role ARN printed by bootstrap.

6. Verify GitHub Actions workflow runs fmt/validate/plan on PR and apply on main merge.

# Screenshots to include

[Insert Screenshot] — bootstrap.sh creating bucket and table

[Insert Screenshot] — terraform apply outputs for dev

[Insert Screenshot] — Browser showing ALB DNS page

[Insert Screenshot] — GitHub secret AWS\_ROLE\_ARN configured

[Insert Screenshot] — Successful GitHub Actions run

# Notes (Updated)

- If Terraform is missing, install it via HashiCorp repo (see README).

- Use ./deploy\_all.sh to apply dev, staging, prod in one shot if allowed by your reviewer.